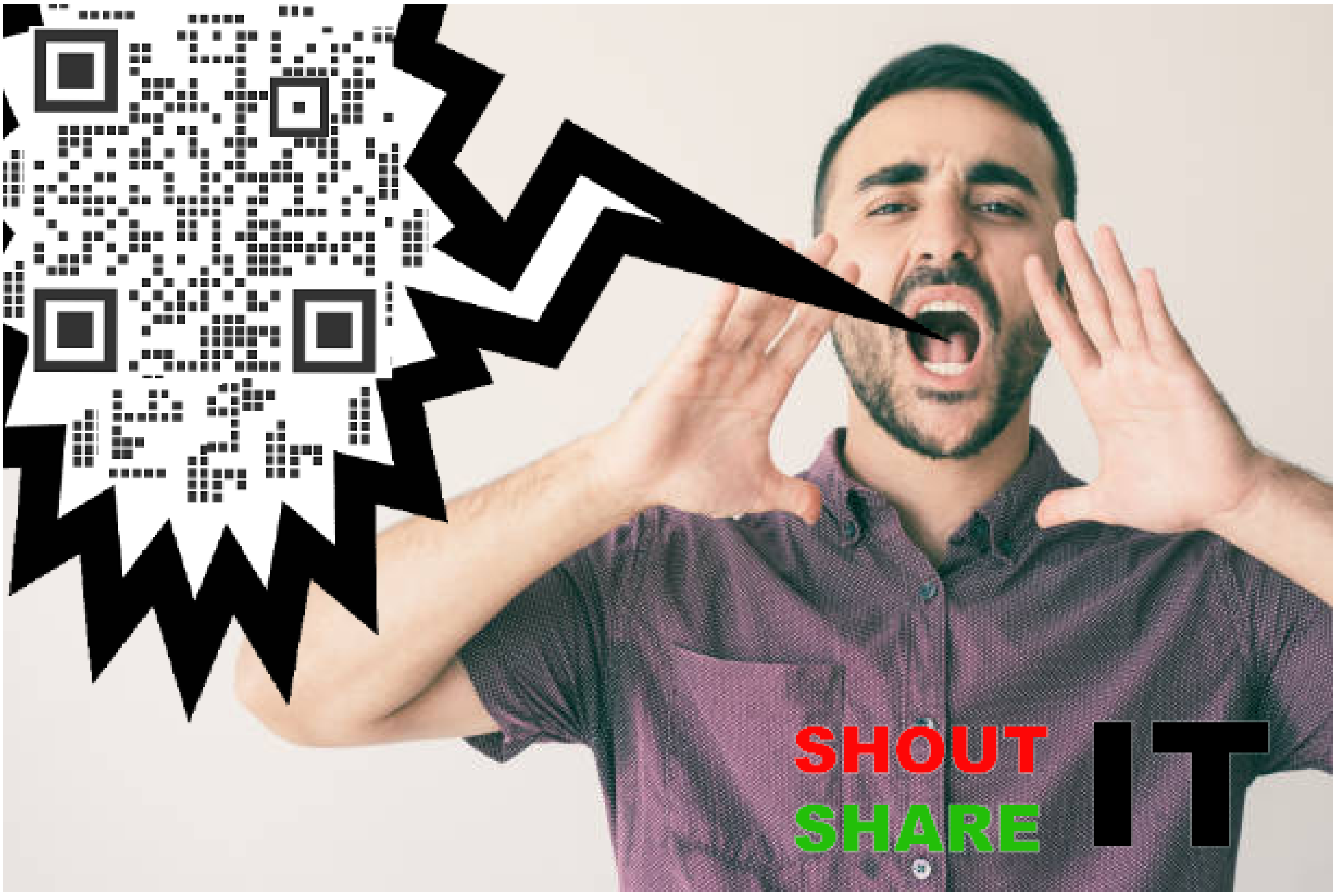
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INDEX AND SYNOPSIS

OF THE

ANIMAL KINGDOM

ARRANGED IN CONFORMITY WITH ITS
ORGANIZATION,

BY THE BARON CUVIER,

MEMBER OF THE INSTITUTE OF FRANCE, &c. &c. &c.

WITH

SUPPLEMENTARY ADDITIONS TO EACH ORDER,

BY

EDWARD GRIFFITH, F.R.S. S.A. & L.S.

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OF PHILADELPHIA, &c.

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ADVERTISEMENT.

During the publication of the "Animal Kingdom," M. Guerin has produced in France a series of engravings, under the title "Iconographie du Regne Animal," illustrating nearly all the genera and subgenera of that work, including not only reduced copies of the most esteemed existing engravings of animals, but also a vast number of original figures of hitherto unpublished species, especially of insects and other invertebrata. M. Guerin has, moreover, added to these a most valuable series of anatomical figures, displaying, to the eye, much more intelligibly than words can do to the understanding, the peculiarities of structure on which Cuvier has founded his arrangement of the animal kingdom.

This work of M. Guerin has received the highest commendation, not merely from Cuvier himself, but also from most of the first zoologists in France, and is certainly of the greatest utility in the study of the work it is intended to illustrate, superseding, in a very great measure, constant references to Nature herself, otherwise necessary to those who would understand any natural system of arrangement.

The proprietors of the "Animal Kingdom" having now redeemed their pledges to the subscribers, by completing the work within the limits originally prescribed,—pledges which were made before Guerin's work was thought of,—have been strongly urged to publish the whole of these illustrations. Some of them have been already copied in the "Animal Kingdom;" and in order to render that work as useful as possible, it is proposed to publish the remainder as a Supplement to it, at as low a price as may be consistent with the proper execution of the plates.

The Iconography will moreover form a distinct work, or it may be applied to illustrate any general Zoology, as well as that of the Baron Cuvier. It will be published in ten or twelve Monthly Parts, to be completed contemporaneously with the original work in France, which will be early in 1836. A description of the figures will accompany the last Part.

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ALPHABETICAL TABLE

OF

AUTHORS QUOTED IN THIS WORK.

In explaining the abbreviations employed to indicate the numerous writers necessarily referred to in this work, it has been thought useful to give the reader a general idea of their profession, the period of their birth and decease, and of the character of their writings.

Abild.—**Abildgaardt** (Peter Christian), a Danish naturalist; Professor at Copenhagen, died in 1808.

One of the continuers of the Zoologia Danica of Müller, and author of various Memoirs published among those of the Society of Natural History, and of The Royal Society of Sciences of Copenhagen, as well as of the Society of Naturalists of Berlin.

Acad. des Sc.

I thus quote the "Mémoires de l'Académie des Sciences," of Paris, of which one quarto volume was annually published from 1700 to 1790.

I have also occasionally quoted the "Mémoires des Savans Etrangers à l'Académie," eleven volumes, from 1750 to 1786.

I have also frequently quoted the "Memoirs of the Academy of Berlin" from 1819, and the new ones of the Academia Naturæ Curiosorum of Bonn, from Vol. IX. 1818, at which period they assumed their new form.

For those of the Academy of Petersburg, see Peterob. or Petrop.

Acosta or rather **Mendez da Costa** (Emmanuel), a Portuguese naturalist, resident in London.

"Historia Naturalis Testaceorum Britanniæ," 1 vol. 4to. London, 1778.

Adanson (Michael), born at Aix in 1727, and died in Paris 1806, Member of the Académie des Sciences, and one of the first naturalists who attempted the classification of Shells according to their animals.

"Histoire Naturelle des Coquillages du Sénégal," 1775, 1 vol. 4to.

Agassis, a German naturalist.

Editor of the "Fishes of Spix," and author of Memoirs in the Isis.

Ahr.—**Ahrens.**

"Augusti Ahrensii, Fauna Insectorum Europæ, fascic. I—XII."

Alb. or **Albin.**—**Albin** (Eleazar), an English painter.

"A Natural History of Birds," 3 vols. 4to. London, 1731—38, containing 306 indifferent coloured plates.

"A Natural History of Spiders," 1 vol. 4to. with plates. London, 1736.

Albinus (Bernard-Sigefroy) Professor at Leyden, and one of the great anatomists of the eighteenth century, born at Frankfort in 1697, died in 1770.

We have only had occasion to quote him for the description of the Pennatulæ inserted in the "Annotationes Academicæ," 8 Nos. in 4to. Leyden, 1754—1768.

Aldrov. or Aldr.—Aldrovandi (Ulysse), a nobleman of Bologna, Professor of the University of Bologna, born 1525, died blind, 1605.

His "Natural History," in fourteen vols. folio, from 1599 to 1640, eleven of which are on the subject of animals, was mostly published by his successors. The third volume of the Ornithology and the first of the Insects were the only ones published during his life. It is an undigested and wearisome compilation.

Amor.—Amoreux (N.), a physician of Montpellier.

"Notice des Insectes de la France, réputés Venimeux," 1 vol. folio, with plates. Paris, 1786.

"Description Méthodique d'une espèce de Scorpion commune à Souvignargues, en Languedoc." Journal de Physique, XXXV.

Anders.—Anderson (John), a merchant and burgomaster of Hamburg, born in 1674, died in 1743.

"Histoire Naturelle de l'Islande du Groënland," &c. 2 vols. 8vo. Paris, 1750.

This work, although antiquated and superficial, is still the principal source of our information relative to the Cetacea.

Andreæ (John Gerard Reinhard), druggist at Hanover, born in 1724, died in 1793.

"Letters written from Switzerland to Hanover, 1763," in the German Language. They were at first printed separately in the Hanover Magazine for 1764—65, and republished in 1 vol. 4to. Zurich, 1776.

Ann. Mus. or du Mus.—"Annales du Muséum d'Histoire Naturelle de Paris," by the professors of that establishment, 20 vols. 4to, from 1802 to 1813.

This work is continued under the title of:

"Mémoires du Muséum d'Histoire Naturelle," &c. Paris, 1815, et seq. Eighteen volumes have been published.

Argenv.—Argenville (Antoine Joseph Des-Alliers d'), maitre des Comptes of Paris, born 1680, died 1765.

"L'Histoire Naturelle Eclaircie dans une de ses principales parties, la Conchyliologie," 4to. first edition. Paris, 1742; the second augmented by the addition of the Zoomorphose, ibid., 1757; the third augmented by M. Favaune, 2 vols, ibid., 1780.

Arted.—Artedi (Peter), a Swedish naturalist, and a friend of Linnæus, born in 1705, drowned at Amsterdam in 1735.

His work on Fishes was published by Linnæus. "P. Artedi Ichthyologia sive Opera Omnia de Piscibus," 1 vol. 8vo. Leyden, 1738.

The edition of Walbaum, "Artedius Renovatus," 5 vols. 8vo. Gripswald, 1788—89 is greatly augmented, but by an injudicious compiler.

Ascan.—Ascanius (Peter), Professor at Copenhagen.

Author of five numbers in folio, the first containing "Coloured Illustrations of the Natural History of the North," from 1767 to 1779.

Audeb.—Audebert (Jean-Baptiste), a painter at Paris, born in Rochefort, 1759, died 1800.

"Histoire Naturelle des Singes et des Makis," folio, Paris, 1800, with sixty-two plates drawn from the stuffed specimens in the Museum.

"Oiseaux Dorés ou à Reflets Métalliques," 2 vols. folio, Paris, 1802.

Aud.—Audouin (Jean-Victor), Doctor of Medicine, sub-librarian to the Institute of France, assistant naturalist to Messrs. de Lamarck and Latreille at the Jardin du Roi, and member of various societies, born in Paris, 27th of April 1797.

"Anatomie d'une Larve Apode" (Conops), found in a Bombus lapidarius, by Messrs Lachat and Audouin, 1818.

"Mémoire sur les rapports des Trilobites avec les Animaux Articulés," published with plates in the Annales Générales des Sciences Physiques, VIII. p. 233.

"Mémoires sur l'Achlysie, Nouveau Genre d'Arachnide," published with plates in the Mem. Soc. d'Histoire Naturelle, II. 497.

"Note on a new species of Achlysie," Id. II. 497.

"Lettres sur la Génération des Insectes addressée à l'Académie des Sciences," published in the Annales des Sciences Naturelles, II. p. 281.

"Recherches Anatomiques sur la Famille du Drele et sur le Mâle de cette Espéce," published with plates in the Annales des Sciences Naturelles, II. p. 443.

"Recherches Anatomiques pour servir à l'Histoire Naturelle des Cantharides," published with plates in the Annales des Sciences Naturelles, IX. p. 31.

"Prodrome d'une Histoire Naturelle, Chimique, &c., des Cantharides," a medical thesis for the degree of M.D., 4to. Paris.

"Mémoire sur la Nicothoé," a new genus of the Crustacea which lives on the blood of the Lobster. Messrs Audouin and Milne Edwards, published in the Annales des Sciences Naturelles, IX. p. 345.

"Mémoire sur l'Anatomie et la Physiologie des Crustacés," published in the same work.

"Explication Sommaire, &c." of the plates in the great work on Egypt, the publication of which had been interrupted by the indisposition of M. Savigny. To M. Audouin also, in conjunction with M. Geoffroy Saint-Hilaire, we are indebted for the description of the Mammalia.

"Observations pour servir à l'Histoire de la Formation des Perles," inserted in the Memoires du Muséum d'Histoire Naturelle, 1829.

"Mémoires sur plusieurs Mollusques, entre autres sur la Glycimère, sur une Clavagelle vivante, genre Siliquaire, et sur le genre Magile," presented to the Académie des Sciences in 1829, and republished from that work in the review of the Annales des Sciences Naturelles.

With MILNE EDWARDS.

"Résumé d'Entomologie ou d'Histoire Naturelle des Animaux Articulés," 2 vols. 18mo. Paris, 1829.

"Histoire Naturelle des Animaux du littoral de la France," still in MS.

AZZ.—DE AZZARA (Don Felix) a Spanish officer, born 1746, has given us two excellent works on the natural history of Paraguay.

"Essai sur l'Histoire Naturelle des Quadrupèdes du Paraguay," translated from the manuscript by M. Moreau de Saint-Méry, 2 vols. 8vo. Paris, 1801.

"Voyages dans l'Amérique Méridionale de 1781, jusqu'en 1801," translated by Mr. Walckenaer, 4 vols. 8vo. Paris 1809. The last two volumes, translated by Sonnini, contain the natural history of the birds of Paraguay.

BAJON, formerly staff-surgeon at Cayenne.

"Mémoires pour servir à l'Histoire de Cayenne," &c., 2 vols. 8vo. Paris. 1777. They contain some details relative to the animals of that country.

BARR.—BARRERE (Pierre), Professor at Perpignan, died 1755.

"Essai sur l'Histoire Naturelle de la France Equinoxiale," 1 vol. 12mo. Paris, 1741.

"Ornithologiæ Specimen Novum." 1 vol. 4to. Perpignan, 1745.

BARTON (Benjam. Smith) an American naturalist and Professor at Philadelphia, died 1816.

"A Memoir on the power of fascination attributed to the Rattlesnake," 1 vol. 8vo. Philadelphia, 1796.

"Facts, Observations, and Conjectures on the generation of the Opossum," pamphlet in 8vo. Philadelphia, 1801.

"Some Notice of the Sirena lacertina, and of another species of the same genus," pamphlet, 8vo. Philadelphia, 1808.

"Memoir on a Reptile called the Hellbender," pamphlet, 8vo. 1812. It is the *Salamandra gigantea*.

BARTRAM (William).

"Voyage dans les parties sud de l'Amérique Septentrionale," translated from the English by M. Benoits, Paris, 2 vols. 8vo.

BAUD.—BAUDET DE LA FACE (Marie-Jean).

"Essai sur l'Entomologie du Départment du Puy-de-Dôme," a Monograph of the Lamellicornes, 1 vol. 8vo. Clermont, 1809.

BAST.—BASTER (Job), a Physician of Harlaem, fellow of the Royal Society of London, born 1711, died 1775.

"Opuscula Subseciva," 1 vol. 4to.

divided into two volumes with plates, Harlaem, 1764 and 1765.

Basterot (B. de), a Lawyer.

“Mémoire Géologique sur les Environs de Bourdeaux,” 8vo. Paris, 1825.

Beauv.—Beauvois (Palisot de). See Palisot.

Bechst. or **Bech.—Bechstein** (J. M.), a naturalist of Saxony, born 1757.

“The Common Natural History of Germany,” 4 vols. 8vo. Leipsig, 1801—1809. in the German language. It only treats of the Quadrupeds and Birds.

Bell (Thomas).

Author of various Memoirs on Reptiles in the Linnæan Transactions, Zoological Journal, &c.

Bel.—Belon (Pierre), a Physician at Mans, and a Professor of the College of France, born 1517, died 1564.

“Observations faites dans ses Voyages en Orient,” 1 vol. 4to. 1553.
“Histoire des Poissons,” 1 vol. 8vo. Transv., 1551.
“Histoire Naturelle des étranges Poissons Marins, et Description du Dauphin, &c.” 1 vol. 4to, 1551.
“Histoire Naturelle des Oiseaux,” 1 vol. folio, 1551.

Bennet (E. T.), an English naturalist.

Author of several Memoirs in the Zoological Journal.

Bennet (J. Whitchurch,) an English naturalist.

“Natural History of the Fishes of Ceylon,” of which but two numbers, in 4to. are yet published. The plates are beautiful.

Bergius (Peter-Jonas), a Swedish naturalist, Professor at Stockholm, died 1790.

Quoted as author of certain Memoirs among those of Stockholm.

Beseke (John Melchior Theophilus), Professor at Mittau in Courland, born 1746. Author of

“Materials for the History of the Birds of Courland” (in German), 8vo. 1792, Mittau and Leipzic.

Bendant (F. S.), a French naturalist, &c., member of the Académie des Sciences, quoted for his

Memoirs on Shells, published in the Annales du Muséum.

Besler or **Mus. Besler** (Michael Robert), a physician at Nuremberg, born 1607, died 1661.

“Rariora Musei Besleriani,” folio, 1716.

Blainv.—Blainville (Henri Ducrotay de), adjunct Professor to the Faculté des Sciences, and member of the Académie des Sciences.

I quote several of his Memoirs on all the branches of Zoology, published in the Annales du Museum, Bulletin des Sciences, Journal Physique, and his articles Mollusques and Vers, in the Dictionnaire des Sciences Naturelles. The first is printed separately under the title of MALACOLOGIE. Paris and Strasb., 8vo, 1828, with 1 vol. of plates.
“Mémoire sur les Bélemnites,” 4to. Paris, 1827.
“Essai d'une Monographie de la Famille des Hirudinées,” 8vo. Paris, 1827.

Bl.—Bloch (Mark-Eleazer), a Jewish physician in Berlin, born at Anspach 1723, died 1799. His

“Ichthyology, or General and Particular History of Fishes,” in twelve numbers, folio, with 432 plates, Berlin, 1785—1796, is far from being general. It only contains such species as he could procure, and almost all the foreign ones are badly coloured. His
“Systema, Ichthyologiæ”—see SCHNEIDER—also includes the species of other authors, but arranged in a fantastic manner.
“A Treatise on the Generation of Intestinal Worms” (in German), 4to. Berlin, 1782.

Blum. or **Blumenb.—Blumenbach** (John Frederick), Professor of Medicine and Natural History at Gottingen.

“Manual of Natural History,” 8th edition (in German), 1 vol. 8vo.

Gottingen, 1807. There is also a French translation of the same by M. Artaud, 1 vol. 8vo. Metz, 1803.

"Plates of Natural History" (Abbildungen), 10 numbers, 8vo. each consisting of 18 plates. Gottingen, 1796 1810.

Boccone (Paul), a Bernardine monk of Sicily, born in 1633, died 1704.

"Recherches et Observations Naturelles," &c., 1 vol. 12mo. Paris, 1671.

Bodd.—Boddaert (Peter), Physician, &c., of Flessingen, in Zealand.

"Elenchus Animalium, vol. I. sistens Quadrupedia," 8vo. Rotterdam, 1785. The sequel has not appeared.

Four letters on as many animals of the Cabinet of Schlosser, and on the Lacerta amboinensis.

Bohatsch (John Baptist), Professor at Prague, died 1772.

"De quibusdam Animalibus," &c. 1 vol. 4to. Dresden. 1761.

This work contains some good observations on certain Mollusca and Zoophyta.

Boie, a young naturalist of Kiel, who died in Java. His voyage was undertaken for scientific purposes.

He had prepared extensive materials for publication on the Reptilia.

Bojanus (Louis Henry), a German naturalist, Professor at Vilna, died 1828.

"Monograph of the Fresh-water Tortoises of Europe," folio, Vilna, 1819, an excellent work. He was also the author of several Memoirs in the Isis.

Boisd.—Boisduval (J. A.), physician and curator of the cabinet of count Dejean.

"Essai sur une Monographie des Zygenides," 1 vol. 8vo. with plates. Paris 1829.

"Europæorum Lepidopterorum Index Methodicus," added to the Essay, &c.

He has lately, jointly with Major de Conte of the United States army, published the first three numbers of another work, entitled

"Histoire Générale et Iconographie des Lépidoptères or des Chenilles de l'Amérique Septentrionale," 8vo. Paris.

The same gentleman in conjunction with count Dejean, has also published the first numbers of another, called the

"Iconographie et Histoire Naturelle des Coléoptères d'Europe," 8vo. Paris, 1827.

He has also described some new species of Lepidoptera in the Annales de la Société Linnéenne de Paris.

Bomme (Leonard), a physician in Zealand.

Author of certain Memoirs published among those of the Society of Sciences of Flessingen, or Flushing.

Bon, or Bonan.—Bonanni, or rather **Buonanni** (Filippo), a jesuit professor at the college of Rome, born 1638, died 1725. He was an assiduous observer, but we have only quoted his work entitled

"Recreatio Mentis et Oculi in Observatione Animalium Testaceorum," 1 vol. 4to. Rome, 1684.

Bonap. or Ch. Bonap.—Bonaparte (Charles Lucien), Prince of Musignano, son of the prince of Canino.

Author of an excellent Supplement to Wilson's American Ornithology, and of several memoirs in the Annals of the Lyceum of New York.

Bonnat.—Bonnaterre (the Abbé), Professor of natural history at Tulle.

He superintended the engraving of the plates of the Vertebrata for the Encyclopedie Methodique, and gave the text for those of the Reptiles and Fishes,

His figures generally are copied from authors, and not always judiciously selected.

Bonel.—Bonelli (Francesco), director of the Cabinet of Natural History, and professor of Zoology at Turin.

"Catalogue of the Birds of Piedmont," pamphlet, 4to, 1811.

"Entomological Observations," in two parts, published in the Memoirs of the

Academy of Sciences of Turin. They treat of the genus Carabus of Linnæus, or of the Carabici.

He also published other Memoirs, of which we may particularly notice the "Descrizione di sei nuovi Insetti Lepidopteri della Sardegna," in the thirtieth volume of the same collection.

Bonnet (Charles), a celebrated philosopher and naturalist of Geneva, born in 1720, died 1793. We only quote his

"Traité d'Insectologie," 2 vols. 8vo. Paris, 1745, and in the first volume of his works in 4to. Neufchâtel, 1769.

Bont.—Bontius (Jacques,) physician general at Batavia in the commencement of the seventeenth century.

"Historiæ Naturalis et Medicæ Indiæ Orientalis, libri VI." printed as a sequel to the work of Pisou, "De Indiæ utriusque re Naturali et Medica."

Borlasse (William), an English clergyman, curate in the county of Cornwall, born in 1696, died 1772.

"Natural History of Cornwall," 1 vol. folio. Oxford, 1758.

Born (Ignatius de), a Transylvanian naturalist and celebrated mineralogist, born 1742, died 1791.

"Testacea Musei Cæsarei Vindobonensis," 1 vol. folio. Vienna, 1780.

Bory-Saint-Vincent, a naturalist of Bordeaux, who accompanied Captain Baudin to the Isle of France, and late president of the Commission of Natural History in the Morea.

"Voyage aux quatres principales isles d'Afrique." This work, which we have quoted, contains various interesting Zoological observations.

"Essai d'une Classification des Animaux Microscopiques," 8vo. Paris, 1826.

He also furnished the explanations of the latter part of the plates of the article Vers, in the Encyclopédie Méthodique.

"Essai Monographique sur les Oscillaires," 8vo. Paris, 1827.

Various articles in the Dictionnaire Classique d'Histoire Naturelle, of which he is the principal editor.

Bosc (Louis), member of the Académie des Sciences.

Author of numerous memoirs in the Actes de la Société de l'Histoire Naturelle, the Bulletin des Sciences, &c. and of the Histoires Naturelles des Vers, des Coquilles et des Crustacés, which form a sequel to Déterville's small edition of Buffon.

Bosman (Wm.), a Dutch merchant, who lived in the seventeenth century.

"A Voyage to Guinea," 1 vol. 8vo., Utrecht, 1705, containing original notes on various animals.

Boud.—Boudier (Henri Philippe), druggist,

Has published in the Annales de la Société Linnéenne de Paris, the description of a new species of Lema for the Faune Française.

Bourguet (Louis), professor at Neufchatel, born 1678, died 1742.

"Traité des Petrifications," 1 vol. 4to. Paris, 1742.

Bowdich, an English naturalist.

Author of a Journey to Ashantee, and of a Voyage to Madeira, which contain various observations relative to natural history.

Bowdich (Mrs.) now Mrs. **Lee.**

Is publishing a History of the Fresh-water Fishes of Great Britain, with splendid plates. London 1828, 1829.

Brander (Gustavus), an English naturalist, died 1787.

"Fossilia Hantoniensia Collecta et in Museo Britannico deposita," 4to. London, 1766.

Brantz, a young Dutch naturalist.

"Memoir of the Euriotis," the same Rat as our Otomys.

Brebis.—Brebisson, member of the Société Linnéenne of Calvados.

"Catalogue Méthodique des Crustaces Terrestres, Fluviatiles et Marins, recueillis dans le département du Calvados," 8vo.

Brehm (Christian-Louis), a German clergyman.

"Materials for a History of Birds" (in German), 3 vols. 8vo. Neustadt, 1820. 1822.

Bremser, curator of the imperial cabinet of Vienna.

"On the Worms that inhabit living Man" (in Germany), 4to. Vienna, 1819. It has been translated into French by Dr. Grundler, with additions by M. de Blainville, 8vo. Paris, 1824.

Breyn.—Breynius (J. Philip), a naturalist and physician of Dantzick, born 1680, died 1764.

"Dissertatio de Polythalamiis, nova Testaceorum classe," 4to. Dantzick, 1732.
"Historia Naturalis Cocci radicum Tinctorii," 1 vol. 4to. Gedani, 1731.

Briss.—Brisson (Mathurin Jacques), professor of natural philosophy, member of the Académie des Sciences, and in his youth curator of the cabinet of natural history of Réaumur; born 1723, died 1806.

"Le Règne Animal divisé en IX classes," 1 vol. 4to. Paris, 1756. It only contains the Quadrupeds and Cetacea.
"Ornithologie," 6 vols. 4to. Paris 1770. A useful work on account of the minute exactness of the descriptions. The plates were drawn by the same hand that furnished the figures of the Planches Enluminées of Buffon, and are frequently taken from the same specimens.

Brit. Zool.

Under this title we quote the large anonymous folio with fine plates, called "British Zoology," printed in London in 1766. It is by Pennant, and has been reproduced by him under the same title in 4 vols. 8vo. See Pennant.

Brocchi (G.), a military engineer, died 1828 at Syria, in the service of the Pacha of Egypt.

"Conchiologia Fossile Subapennina," 2 vols. 4to. Milan, 1814.

Brongn.— Brongniart (Alexander), member of the Académie des Sciences, and professor of the Faculté des Sciences de Paris, and of the Jardin du Roi, born 1770.

"Essai d'une Classification Naturelle des Reptiles," 4to. Paris, 1805.
I also quote his works on the Fossil Shells—"Coquilles Fossiles"—both in the Annales du Museum, and our joint publication on the geology of the environs of Paris, I also refer to his
"Histoire des Crustaces Fossiles," 4to. published by him and M. Desmaret. Paris, 1812.

Brouss.—Broussonnet (Pierre-Marie-Auguste), perpetual secretary to the Société d'Agriculture, and member of the Académie des Sciences; born 1761, died 1807. I quote his

"Mémoire sur les Chiens de Mer," in the Mémoires de l'Académie des Sciences, 1780. Also his
"Ichthyologia," 4to. of which but one part was published. London and Paris, 1782.

Brown Jam.—Brown (Patrick), an Irish physician, resident in Jamaica.

"The Civil and Natural History of Jamaica," 1 vol. folio. London, 1756.

Brown or Br.—Brown (Peter), an English painter.

"New Illustrations of Zoology," 1 vol. 4to. London, 1776, with fifty coloured plates of animals of various classes—all of them indifferently executed.

Bruce (James), the celebrated Scotch traveller, born 1730, died 1794.

"Travels in Abyssinia, and to the Sources of the Nile." I quote the French translation, 5 vols. 4to. Paris, 1790.

Brug.—Brugieres (Jean-Guillaume), a physician at Montpellier, and a traveller, born 1750, and died at Ancona on his return from Persia, 1799. I quote his

"Dictionnaire des Vers," published in the Encyclopédie Méthodique. But one volume, 4to. has appeared. Paris, 1792. I also quote his
"Figures de Vers," for the same work, of which there are four.

Brun.—Brunnick (Martin T.), a Danish naturalist, Professor at Copenhagen.

"Ichthyologia Massiliensis," &c., 1 vol. 8vo. Copenhagen and Leipsic, 1768.
"Entomologia sistens Insectorum Tabulas Systematicas," 8vo. Copenhagen, 1764. Also various Memoirs published among those of the Society of Sciences, and of the Society of Natural History, of Copenhagen.

Buchan.—Buchanan (Dr. Francis Hamilton), a Scotch physician at Bengal, died in 1829.

Author of certain Memoirs in the Transactions of the Linnæan Society, and of a Journey from Madras to the Mysore &c. which contains several valuable observations. We are particularly indebted to him for
"A Natural History of the Fishes of the Ganges," 1 vol. 4to. with a great number of excellent plates. Edinburgh, 1822.

Buckland (William), professor of Geology at Oxford, author of the

"Reliquiæ Diluvianæ," 4to. London, 1825, and of numerous Memoirs on fossils.

Buff.—Buffon (Georges-Louis-Leclerc, Comte de), Intendant of the Jardin du Roi, and Treasurer of the Académie des Sciences, born 1707, died 1788.

"Histoire Naturelle, generale et particulière, avec la Description du Cabinet du Roi." I always quote the Paris edition of 1749—1789, in 36 vols. 4to. of which *three* are general, *twelve* relate to Quadrupeds, *seven* are supplements to his general observations and to the Quadrupeds, *nine* treat of Birds, and *five* of Minerals.

Buf. Enl. or Enlum. See **Planches Enluminees.**

Bullet. des Sc.

"Bulletin des Sciences par la Société Philomatique," a journal which has appeared monthly since 1791, which contains a multitude of abridged and valuable observations relative to Natural History.

Burchell, an English traveller.

"Travels in the Interior of Southern Africa."

Carena (Giacinto), professor at Turin.

"Monograph of the Genus Hirudo," vol. XXV. of the Memoirs of the Academy of Turin, 4to. 1820.

Carmich. — Carmichael, an English officer.

I quote his Memoir on the Fishes of Tristan d'Acunha. Lin. Trans. XII.

Carus (Charles-Gustavus), Professor at Dresden.

Author of several works on comparative Anatomy. I quote his Memoir on the circulation in the Larvæ of the Neuroptera, printed in German, 4to. Leipsic, 1827.

Cat. Catesb.—Catesby (Mark), a traveller in North America, born 1680, died 1749.

"The Natural History of Carolina, Florida, and the Bahama Islands," 2 vols. folio, with an Appendix and two hundred and twenty coloured plates, London, 1731. 1743.

Cauche (François), of Rouen, a soldier or sailor at Madagascar, died 1638.

"Une Relation de Madagascar," &c. 1 vol. 8vo. 1631.

Cavolini (Filippo), a physician and naturalist at Naples.

"Memorie per servire alla Storia de' Polipi Marini," 4to. Naples, 1785.
"Sulla Generazione dei Pescie dei Granchi," 1 vol. 4to. Naples, 1787.

Cetti (Francesco).

"Storia Naturale di Sardegna," 4 vols. 12mo. Sassari, 1774—1777.

Chabert, director of the Ecole Veterinaire at Alfort.

"Traité des Maladies Vermineuses dans les Animaux," pamphlet, 8vo. Paris, 1782.

Chab.—Chabrier (J.) a corresponding member of the Societé d'Histoire Naturelle.

He published a series of Memoirs on the flight of Insects, in the Annales du Museum d'Histoire Naturelle. A certain number of impressions were taken separately, which form his "Essai sur le Vol des Insectes," 1 vol. 4to. Paris, 1823.

Chamisso (Adelbert de), a distinguished literary gentleman and naturalist of Berlin, who sailed round the world with Captain Kotzebue.

I quote his Memoir on the Salpæ (in Latin), 1 vol. 4to. Berlin, 1830.

Charp.—Charpentier (Toussaint de).

"Horæ Entomologicæ," 1 vol. 4to. with plates. Breslau, 1825.

Chemn.—Chemnitz (John Jerome), of Magdeburg, chaplain to the garrison of Copenhagen, born 1730.

He continued the great work on Conchyliology of Martini, and is the author of various Memoirs published among those of the Society of Naturalists of Berlin, of Copenhagen, and of the Naturforscher.

Choris (Louis), a Russian painter, who accompanied Captain Kotzebue in his voyage round the world. He was assassinated near Vera-Cruz, when about to commence his travels in Mexico.

"Voyage Pittoresque autour du Monde," folio. Paris, 1822.

"Vues et Paysages des Régions Equinoxiales," folio. Paris, 1826.

Clairv.—Clairville, an English naturalist, residing in Switzerland.

"Entomologie Helvetique," 2 vols. 8vo. in French and German, with excellent plates. The first volume was published in 1798, and the second in 1806; both were printed at Zurich.

Clarck, an English Veterinary Surgeon.

"A Monograph of the Œstri," in the third volume of the Linnæan Transactions. He has published a second edition of it.

Clerc (Charles), a Swedish painter and a pupil of Linnæus.

"Aranei Suecici Descriptionibus et Figuris Illustrati," 1 vol. 4to. in Swedish and Latin. Holmiæ. 1757.

"Icones Insectorum Rariorum," 1 vol. 4to. Holmiæ, 1759—1764. This work is useful as an indication to the Lepidoptera described by Linnæus, from the Cabinet of Queen Frederica Ulrica.

Cloquet (Jules), a physician and surgeon of Paris.

"Anatomie des Vers Intestinaux," 4to. Paris, 1824.

Clus.—Clusius, or l'Ecluse (Charles), born at Arras 1526, died 1609. He was physician to the Emperor, and subsequently a professor at Leyden.

"Exoticorum Libri X," 1 vol. folio. Anvers, 1605.

Collet Meygnet (G. F. H.), physician.

"Mémoire sur un Ver trouvé dans le rein d'un Chien" (the *Strongylus gigas*), inserted in the Journal de Physique, vol. LV.

Fab. Col.—Columna (Fabius), a physician at Rome, an illegitimate descendant of the illustrious house of Colonna, born 1567, died about 1660. He was an exact and erudite observer.

"De Purpura," 4to. 1616.

"Aquatilium et Terrestrium aliquot Animalium, aliarumque Naturalium Rerum Observationes," printed at the end of his Ecphrasis, ib., 4to. 1616.

Com. or Commers.—Commerson (Philibert), born at Dombes in 1727, and died at the Isle of France, 1773. A most indefatigable traveller, and learned naturalist.

I quote his manuscripts and drawings deposited in the Library of the Museum.

Cook (Captain), the celebrated navigator, born 1728, and killed at the Sandwich Islands in 1779.

His three great voyages, which have been translated into all languages, are well known to every one.

Coqueb.—Coquebert (Antoine Jean), a naturalist established at Rheims.

"Illustratio Inconographica Insectorum quæ in Museis Parisinis observavit J. Chr. Fabricius," 3 parts, 4to. Paris, 1799—1804.

He also published various notes in the Bulletin des Sciences.

Couch (Jonathan), an English naturalist.

I quote his paper "On the Fishes of Cornwall." Linn. Trans. XIV.

Cram.—Cramer (Peter), a merchant of Amsterdam.

"Papillons Exotiques des trois parties du Monde, l'Asie, l'Afrique, et l'Amérique," in Dutch and French, 4 vols. 4to. containing four hundred coloured plates. Amsterdam, 1779—1782.

For the Supplement, see Stoll.

Creutz.—Creutzer(Christian).

"Entomologische Versuche," or Entomological Essays, 8vo. with coloured plates, Vienna, 1799.

Crevelt, a German naturalist.

Author of a Memoir on a Gecko, published among those of the Society of Naturalists of Berlin. 1809.

Curt.—Curtis (John), an English naturalist and painter.

He has commenced a work illustrating the genera of Insects and plants Peculiar to Great Britain. Their characters are figured with the greatest accuracy.

This work, which is published in numbers, already forms 3 vols. 8vo.

The same author has also published in the Zoological Journal some interesting observations on the Elater noctilucus.

Cuv.—Cuvier (George-Leopold-Cretien-Frederic-Dagobert), born at Montbeliard, 1769; perpetual Secretary to the Académie des Sciences, &c. &c. &c.

Of my own works, exclusive of my Memoirs contained in the Annales du Muséum, I quote the following:

Ménag. du Mus., or "Ménagerie du Muséum d'Histoire Naturelle," by Messrs. Lacepède, Cuvier, and Geoffroy, with plates coloured by Marechal, and engraved by Miger, 2 vols. 8vo. Paris, 1804. There is another edition in folio.

Tab. Elem., or "Tableau Elémentaire de l'Histoire Naturelle des Animaux," 1 vol. 8vo. Paris, 1798.

Leç. d'Anat. Comp., or "Leçons d'Anatomie Comparée, recueillies et publiées par MM. Dumeril and Duvernoy," 5 vols. 8vo. Paris, 1800, 1805.

Rech. sur les Oss. Foss., or "Recherches sur les Ossements Fossiles des Quadrupèdes," 4 vols. 4to. Paris, 1812. A second edition was published in 5 vols. 4to. 1821—1823.

Mém. sur les Moll., or "Mémoires pour servir à l'Histoire des Mollusques," 1 vol. 4to. Paris, 1816.

Cuv. et Val.—Cuvier and Valenciennes.

"L'Histoire Naturelle des Poissons," a work which I am now publishing in conjunction with M. Valenciennes. There are now completed 5 vols. 4to. and 8vo. Paris and Strasburg.

Fred. Cuv.—Cuvier (Fred.), Inspector General of the University of Paris, member of the Académie des Sciences, &c. &c., born at Montbéliard, 1773.

I quote his Mémoires in the Annales du Muséum, and principally those which relate to the teeth of the Mammalia, published in 1 vol. 8vo. Paris, 1825. I also particularly cite his "Histoire Naturelle des Mammifères," published in conjunction with M. Geoffroy Saint-Hilaire in folio and 4to. with illustrations drawn from nature.

Cyrill.—Cyrillus or **Cirillo** (Dominico), a physician at Naples publicly executed in 1796.

"Entomologiæ Neapolitanæ Specimen," 1 vol. folio. with coloured plates. Naples, 1787.

Dahl (George).

"Coleoptera and Lepidoptera," 1 vol. 8vo. Vienna, 1823.

Daldorf, a Danish officer.

Author of Memoirs on certain Fishes, published in the Linnean Transactions, and in the Journal of Gottingen.

Dalm.—Dalman (John Wm.), lately deceased at Stockholm, where he was director of the Museum.

"Analecta Entomologica," 1 vol. 4to. with plates. Holmiæ, 1823.
"Prodromus Monographiæ Castniæ," 1 vol. 4to. with one plate, Holmiæ, 1825.
"Om Nagra Svenska Arter of Coccus," Memoir, 4to. with plates. Stockholm, 1826.
"A Monograph of the Chalcidites, or of the Insects of his family of the Pteromalni," 1 vol. 8vo. Stockholm, 1820.
"A Synopsis of the Lepidoptera of Sweden," published in the Memoirs of the Academy of Stockholm, 1816.
"Ephemerides Entomologicæ," 1 vol. 8vo. Holmiæ, 1824.
"A Memoir on certain Ichneumonides," 1 vol. 8vo. Stockholm, 1826.
A second, in the Swedish language, on the Insects enclosed in Copal, 1 vol. 8vo. Stockholm, 1826.

Dal.—Dalyell (J. Graham), a Scotch naturalist.

"Observations on Various Interesting Phenomena of the Planaria," 8vo. Edinburgh, 1814.

Dampier (William), the celebrated English mariner, born 1652.

"Voyage round the World," 2 vols. 8vo. London, 1697 and 1699. It has been translated into French, and has passed through several editions. It contains some interesting traits of the history of animals.

Daniels (Samuel), an English painter.

"African Scenery," 1 vol. folio, a magnificent work, which contains several beautiful figures of extremely rare animals.

Daub.—Daubenton (L.-Jean-Marie), born at Montbard, 1716, died at Paris, 1800. He was a Professor of the Museum and of the Collége de France, and member of the Institute.

I quote the descriptions of the animals with which he has enriched the Natural History of Buffon.

Daud.—Daudin (François-Marie), died at Paris in 1804.

"Traité Elémentaire et Complet d'Ornithologie," of which but 2 vols. 4to. Paris, 1800, have yet appeared; they only contain the Birds of Prey, and a part of the Passerinæ. It is an indifferent compilation.
"Histoire Naturelle des Reptiles," 8 vols. 8vo. Paris, 1802 and 1803, a sequel to the Buffon of Sonnini.
"Histoire Naturelle des Rainettes, des Grenouilles et des Crapands," 1 vol. 8vo. with numerous and coloured plates. Paris, 1803.

Dej.—Dejean (Comte), peer of France, lieutenant-general, &c.

"Catalogue de la Collection des Coléoptères de M. le Comte Dejean," 1 vol. 8vo. 1821.
"Species General des Coléoptères," 3 vols. 8vo. 1825—1829. The fourth volume has lately been published.
"Histoire Naturelle et Iconographie des Coléoptères d'Europe," by MM. Latreille and Count Dejean, 3 nos. 8vo. 1822.
See Boisduval.

Juss.—De Jussieu (Antoine de), Professor of Botany to the Jardin du Roi; born at Lyons 1686, died 1758.

I quote some of his Memoirs on Zoology, published among those of the Academie des Sciences.

Dekay (James E.), an American physician and naturalist.

Author of several Memoirs in the Annals of the Lyceum of New York.

Delap. et Brul.—Delaporte de Brulle.

"Notice sur un Nouveau Genre de la Famille des Charansons," published in the fourth volume of the Mémoires de la Société d'Histoire Naturelle de Paris.

Delle Chiaje (Stefano), Professor at Naples.

"Memoirs on the History of the Invertebrate Animals of the Kingdom of Naples," 2 vols. 4to. Naples, 1823, 1825.

Deluc (John Andrew), a naturalist of Geneva, &c.

I have only quoted this celebrated geologist in relation to his Memoir "Sur les pierres judaiques," published in the "Mémoirs des Savants etrangers."

Deshayes (G. P.) a naturalist of Paris.

"Anatomie et Monographie du genre Dentale," in the "Description des Coquilles Fossiles des Environs de Paris," 4to. Paris, 1824, 1825.

Desm.—Desmarets (Anselme Gaetan); corresponding member of the Académie des Sciences, and Professor of Zoology to the Ecole Veterinaire of Alfort.

"Histoire Naturelle des Tangaras, des Manakins, et des Todiers," 1 vol. folio. Paris, 1805.

"Traité de Mammalogie," serving as an explanation to the plates of the Mammalia of the Encyclopedie Methodique, 1 vol. 4to. Paris, 1820.

He is also the author of various articles in the "Dictionnaire d'Histoire Naturelle;" of which we will particularly designate that on the Malacostraca.

"Considérations generales sur la Classe des Crustaces," 1 vol. 8vo. with plates. Paris, 1803.

"Histoire Naturelle des Crustaces Fossiles," published by him and M. Brongniart.

Desmoulins (Charles), vice-president of the Société Linnéenne de Bourdeaux.

"Essai sur les Spherulites." Bourdeaux, 1826.

Diq. or Diquem.—Dicquemare (the Abbé Jacques François), a naturalist of Havre, born 1733, died 1789.

An indefatigable observer, and author of various memoirs on the Zoophyta and Mollusca in the Philosophical Transactions, Journal de Physique, &c. &c.

Donati (Vitale), a physician at Padua, and traveller to the king of Sardinia, born 1733, and shipwrecked on his return from Egypt in 1763.

"Natural History of the Adriatic Sea," published in Italian, 1 vol. 4to. Venice, 1750. The French translation, La Haye, 1758. An imperfect and superficial work.

Donov.—Donovan (Edward), an English painter.

"The Natural History of British Fishes," 5 vols. 8vo. London, 1820.

"The Natural History of British Insects," 8vo.

"An Epitome of the Natural History of the Insects of China," 1 vol. 4to. London, 1778.

"An Epitome of the Natural History of the Insects of India," 4to. London, 1800. I have seen but twelve nos.

"General Illustration of Entomology," Part I. "An Epitome of the Insects of Asia," 1 vol. 4to. London, 1805.

Dorthes (Jacques Antoine), a physician at Montpellier, born 1759, died 1794.

"Mémoire sur les Araignées Maçonnes," published in the second volume of the Transactions Linnéennes.

Drap. or Draparn.—Draparnaud (Jacques Philippe Raimond), Professor at Montpellier, born 1772, died 1804.

"Tableau des Mollusques Terrestres et Fluviatiles de la France," pamphlet, 8vo. Montpellier and Paris, 1801.

"Histoire Naturelle des Mollusques Terrestres et Fluviatiles de la France," 4to. with fine engravings. Paris, 1805.

Drap.—Drapiez, Professor of Chemistry at Brussels.

Mémoirs on a new genus of tetramerus Coleoptera, and a description of new species of Mammalia, Birds, and Insects, published in the Annales Generales des Sciences Physiques.

Drur.—Drury, an English goldsmith, lately deceased.

"Illustrations of Natural History," 3 vols. 4to. with finely coloured plates representing the rarer insects of his cabinet. London, 1770—1782.

Duf.—Dufour (Leon), a physician at Saint-Sever, Landes.

"Mémoire Anatomique sur une nouvelle espece d'Insecte du genre Brachine," in the 18th volume of the Annales du Muséum d'Histoire Naturelle.

"Various memoirs, "Sur l'Anatomie des Coleoptères, des Cigales, des Ciaadelles, des Labidoures," on a new species of Ornithomyiæ, and on the genus Ocyptera, published in the Annales des Sciences Naturelles. Two Memoirs inserted in the Journal de Physique, one on the Anatomy of the Scorpions, and the other on that of the Scolia. The Annales Générales des Sciences Physiques contain several others, in which he gives a description of various Arachnides, and of several new species of Coleoptera, together with the anatomy of the Ranatra linearis, and of the Nepa cinerea.

Dufts. — Duftschmid (Gaspard), Professor at Lintz.

"Fauna Austriæ," 8vo. in German.

I have only seen the first two volumes, one of which appeared in 1805, and the other 1812. Lintz and Leipsic.

Dugez (Antoine) Professor at Montpellier.

"Recherches sur la Circulation, la Respiration et la Reproduction des Annelides à branches," 1828.

"Espèces Indigènes du genre Lacerta," Annales des Sc. Nat., XVI. 1828.

Duham.—Duhamel du Monceau, naturalist, agriculturist, &c., member of the Académie des Sciences, born at Paris 1700, died 1782.

"Traité general des Pêches," folio, Paris, 1769. I quote this work on account of the number of good plates of fishes which it presents.

Dum. or Dumer.—Dumeril (Constant), Professor to the Faculté de Medicine, and to the Jardin du Roi, member of the Académie des Sciences, born at Amiens, 1774.

Editor of the first two volumes of my "Leçons d'Anatomie Comparée."

"Zoologie Analytique," 1 vol. 8vo. Paris, 1806.

"Traité Elémentaire d'Histoire Naturelle," 2 vols. 8vo. second edition. Paris, 1807. Fourth edition, Paris, 1830.

Various Memoirs on Comparative Anatomy, among which is one on the "Poisons Cyclostomes," &c.

"Considérations Générales sur la Classe des Insectes," 1 vol. 8vo, with plates.

Also the articles in the Dictionnaire des Sciences Naturelles relative to Insects.

Duponch.—Duponchel (A. J.), continuer of Godart's Natural History of the Lepidoptera of France.

"Monographie du Genre Erotyle," 4to. with plates, printed in the twelfth volume of the Memoires du Museum d'Histoire Naturelle.

He has continued, from the sixth volume inclusively, the work of the late M. Godart, entitled "Histoire Naturelle des Lepidoptères de France." The seventh is nearly completed. He has described a new genus of Coleopterous Insects, which he calls Adelostoma, and has published observations on the metamorphosis of the Nyphale Petit Sylvain.

Duport (Andrew Peter), fellow of the Royal Society of London.

Author of a Memoir on the Glaucus, in the fifty-third volume of the Philosophical Transactions.

Dutertre (Jean-Baptiste), a Dominican friar, missionary to the Antilles, born 1610.

"Histoire Générale des Antilles habitées par les Français," 4 vols. 4to. Paris, 1666, 1671.

The second volume, or that relative to Natural History, contains some good observations. There is an edition in 1 vol. 1654.

Dutrochet (N.), physician at Chateau-Renaud.

An accurate and ingenious observer, author of certain memoirs in the Annales du Museum, &c.

Duv.—Duvau (Augusta), member of the Société d'Histoire Naturelle.

"Nouvelles Recherches sur l'Histoire Naturelle des Pucerons," a memoir read before the Academie des Sciences on the 26th of April 1825, and published in the Memoires du Museum d'Histoire Naturelle.

Edwards (George), an English painter, member and librarian of the Royal Society.

"Natural History of Rare Birds," 4 vols. 4to.

"Gleanings of Natural History," 3 vols. 4to.

These two works form but one single collection of three hundred and sixty-two plates.

Next to the Planches Enluminées, it is the richest in respect to Birds that we possess. It also contains animals of other classes. The figures are beauful, the text indifferent.

Edw.—Edwards (Milne), in conjunction with M. Victor Audouin, has published

"Recherches Anatomiques et Physiologiques sur la Circulation dans les Crustaces." Annales des Sciences Naturelles, II.

"Recherches Anatomiques et Physiologiques sur le Système Nerveux des Crustaces." Ann. des Sc. Nat., XIV.

"De la Respiration Aërienne des Crustaces et des modifications que l'appareil branchiale présente dans les Crabes Terrestres." Ann. des Sc. Nat., XV.

"Mémoire sur le Nicothoe," a singular animal that sucks the blood of the Lobster. Ibid. IX.

"Resumé des Recherches sur les Animaux sans vertebre faites aux Isles Chausay."

"Description des Annelides des Côtes de la France."

Edwards (Milne) alone.

"Description de quelques Crustaces nouveaux." Ann. des. Sc. Nat., XIII.

"Recherches Zoologiques pour servir à l'Histoire Naturelle des Lezards." Ann. des Sc. Nat., XVI.

"Monographie des Crustaces Amphipodes."

Egede (John), a Dane, Missionary to Greenland, born 1686, died 1758.

"Description of Greenland," 1 vol. 8vo. Copenhagen and Geneva, 1763.

Eisenh.—Eisenhardt (Charles William), author of

"A Memoir on the Medusæ," in those of the Academia Naturæ Curiosorum of Bonn; and with additions by Chamisso, of a Memoir on certain animals of the class of Worms, Ibid., X. part II.

Ellis (John), a London merchant.

"Essay towards a Natural History of the Corallines found on the Coast of Great Britain and Ireland," 4to. London, 1755. Translated into French, and published at the Hague, 1756.

"The Natural History of many curious and uncommon Zoophytes," 1 vol. 4to. London, 1786. This work was published by him and Solander.

Engram.—Engramelle(Marie-Dominique-Joseph), an Augustine friar at Paris, born in 1727, died in 1780.

"Papillons d'Europe peints par Ernest et décrits par le reverend père Engramelle," 6 vols. small folio, consisting of three hundred and forty-two coloured plates. The work finishes with the Noctua inclusively.

Ernest was an artisan of Strasburg who had a great and self-acquired talent for painting lepidopterous Insects.

Erxl.—Erxleben (John Christian Polycarpe), Professor of Natural History at Gottingen, born 1744, died 1777.

"Systema Regni Animalis, Classis I., Animalia, 1 vol. 8vo." Leipsic, 1777.

Esp.—Esper (E. T. C.), Professor at Erlang.

"Europæische Schmetterlinge," or Lepidoptera of Europe, 4 vols. 4to. the first and the fourth divided into two, with coloured plates.

This work is not completed, but some additional numbers on the true Phalenites or the Geometræ, have been published.

"Die Pflanzenthiere," &c., his work on Zoophytes, 4 vols. 4to. Nuremb., 1791, et seq.

Euphrasen (B. A.), a Swedish naturalist.

Author of a voyage to St. Bartholomew, and quoted for a Memoir inserted among those of the Academy of Stockholm.

Eversh.—Eversham.

Author of the Zoological Appendix to the "Travels in Bucharia," of the Baron de Mayendorf, with notes by M. Lichtenstein. It has been translated into French by Mr. Amédée Jaubert, 8vo. Paris, 1826.

Fab.—**Fabricius** (J. C.), a pupil of Linnæus, Professor of Natural History and Rural Economy at Kiel, born at Tundern, in the Duchy of Sleswick in 1742, died 1807. He published a great many works on Entomology, of which I have particularly quoted the following.

"Entomologia Systematica emendata et aucta," 4 vols. 8vo. the first and third in two parts. Hafniæ, 1792—1794. This work contains several of his anterior ones, revised and re-modelled, such as the "Systema Entomologiæ," 1 vol. 8vo.; "Species Insectorum," 2 vols. 8vo.; "Mantissa Insectorum," 2 vols. 8vo.

"Supplementum Entomologiæ Systematicæ," 1 vol. 8vo. Hafniæ, 1798.

"Systema Eleutheratorum," 2 vols. 8vo. Kiliæ, 1801.

"Systema Rhyngotorum," 1 vol. 8vo. Brunsvigæ, 1801.

"Systema Piezatorum," 1 vol. 8vo. Brunsvigæ, 1804.

"Systema Antliatorum," 1 vol. 8vo. Brunsvigæ, 1805.

He was about to publish his, "Systema Glossatorum," when the hand of death was laid upon him. An extract from that work is given by Illiger in his Magazin für Insectenkunde.

Fab. or Fabr.—**Fabricius** (Otho), Clergyman in Greenland, and subsequently in Norway and Denmark.

"Fauna Groënlandica," &c. 1 vol. 8vo. Copenhagen and Leipsic, 1790, a work of great value, on account of the exactness of the descriptions, but in which names are frequently improperly applied.

He also published certain memoirs among those of the Society of Natural History of Copenhagen.

Falck (J. P.), a Swede, Professor of Botany at Petersburg, born 1727; travelled in the service of the Russian government from 1768 to 1773, and committed suicide at Cassan in 1774.

His travels were published in German, 3 vols. 4to. Petersburg, 1785, 1786. The last two relate entirely to Natural History.

Fall.—**Fallen** (Charles Frederick), Professor of Natural History at Lund.

"Diptera Sueciæ," 4to. first volume. Lundæ, 1814—1817.

Farin.—**Farines**, a naturalist residing in the department of the Pyrenees Orientales.

Author of Observations on the larva of the Ripiphorus bimaculatus, in the Annales des Sciences Naturelles, 1826.

Favanne.

Author of a "Dictionnaire de Conchyliologie," and of a greatly enlarged edition of the Conchyliology of d'Argenville.

Fauj.—**Faujas de Saint-fond** (B.), Professor of Geology at the Muséum d'Histoire Naturelle.

"Histoire Naturelle de la Montaigne de St. Pierre de Maestricht," 1 vol. 4to. Paris, 1799.

Fermin (Philip), physician at Surinam.

"Histoire Naturelle de la Hollande équinoxiale," 1 vol. 8vo. Amsterdam, 1765.

"Description de Surinam," 2 vols. 8vo. Amsterdam, 1769.

Two indifferent works, filled with errors of nomenclature.

Fern. or Hern.—**Hernandez** (Francisco), physician-in-chief at Mexico, under Philip II.

"Nova Plantarum, Animalium et Mineralium Mexicanorum Historia," folio, Rome, 1651. A singular combination of fragments of the author, figures drawn by others, and annotations of editors. It should be read cautiously.

Feruss.—**Ferussac** (J. Daudebart de), a French naturalist.

Author of a new and enlarged edition of an "Essai d'une Méthode Conchyliologique," originally written by M. de Ferussac, Sen., pamphlet, 8vo. Paris, 1807.

"Histoire des Mollusques, Terrestres, et Fluviatiles," folio, with fine plates. It is not yet completed.

He is also the principal editor of that important periodical called the "Bulletin Universel des Sciences," &c.

Feuill.—Feuillee (Louis), the companion and plagiarist of Plumier, born 1660, died 1732.

"Journal d'Observations faites sur les Côtes Orientales de l'Amérique;" 2 vols. 4to. Paris, 1714.
Journal, &c., in New Spain and the islands of America, 1 vol. 4to. Paris, 1725.

Fitch. and Moll.—Fitchel (Leopold de), a naturalist of Vienna, who in conjunction with J. P. C. **De Moll**, member of the Academy of Munich, published the

"Testacea Microscopica, aliaque minuta ex generibus Argonauta et Nautilus," cum tab. XXIV. Vienna, 1803.

Fisch.—Fischer de Waldheim (Gotthelf), a German naturalist, Director of the Imperial Museum at Moscow. Of his numerous works, we quote the following:

"Fragments of Natural History," in German, 1 vol. 4to. Frankfort, 1801.
"Anatomy of the Makis," in German. Frankfort, 1804.
"Description of certain Insects," published in the Memoirs of the Naturalists of Moscow, 1 vol. 4to. Moscow. 1806.
"Entomographia Imperii Russici," 2 vols. 4to. with splendid engravings. Moscow, 1820—1822
"Observations on a carnivorous Fly called Medeterus," 4to. with plates. Moscow, 1819.
"Memoir on the Argas of Persia," 4to. with a plate. Moscow, 1823.
"Letter on the Physodactylus, a new genus of Coleopterous Insects," 8vo. Moscow, 1824.

Fitzing.—Fitzinger, a physician and naturalist at Vienna.

"A New Classification of Reptiles according in their national affinities," 4to. in German. Vienna, 1826.

Fleming (John), a Scotch pastor.

"Philosophy of Zoology," 2 vols. 8vo. Edinburgh, 1822.

Fleuriau de Bellevue, a naturalist at Rochelle.

Author of Memoirs on the Testacea and other Mollusca, published in the Bulletin des Sciences, Journal de Physique, &c.

Forsk.—Forskahl (Peter), a Swedish naturalist, born 1734, a pupil of Linnæus, and the companion of Niebuhr in his travels to the East, died during the journey in 1763.

"Descriptiones Animalium, &c., quæ in Itinere Orientali observavit," 4to. Copenhagen, 1775.
"Icones Rerum Naturalium quas in Itinere Orientali depingi curavit," 4to. Copenhagen, 1776.
Posthumous works, and extremely precious on account of the new species described in them, although the nomenclature is incorrect.

Fortis (J. B. or Alberto), an Italian naturalist, born at Venice 1740, died a Bookseller at Bologna 1803. I quote his

"Mémoires pour servir à l'Histoire Naturelle et principalement à l'Orictographie de l'Italie," 2 vols. 8vo. Paris, 1802

Forst.—Forster (John Reinhold), born at Dirchaw in Polish Prussia 1729, naturalist in the English service for the second voyage of Cook, and subsequently Professor at Halle. He died in 1798.

"Zoologiæ Indicæ Rarioris Spicilegium," 4to. London, 1790.
"Enchiridion Historiæ Naturali inserviens," 8vo. Halle, 1788.
I also quote him for the articles inserted by Bloch in his posthumous System of Fishes.

Fourcroy (Antoine François de), the celebrated Professor of Chemistry, Counsellor of State, and member of the Académie des Sciences; born 1755, died 1809. The only work we have had occasion to quote is his

"Entomologia Parisiensis," 2 vols. 8vo. Paris, 1785, a small work of his youth, and a mere abridgment of that of Geoffroy.

Fred. Cuv. See **Cuv.**

Freminv.—Freminville (Baron de), an officer of the French navy; an able naturalist.

Author of various articles in the Dictionnaire Classique d'Histoire Naturelle.

Fries (B. F).

"Monographia Tanyporum Sueciæ," Lundæ, 1823.

Fr.—Frisch (J. L.), Rector of the Gymnasium of Berlin, born 1666, died 1743.

"A representation of certain German and foreign Birds" (in German) 2 vols. folio, Berlin, 1739—1763, containing two hundred and fifty-five extremely exact, but not fine plates.

"Beschreibung von Insecten in Teuschland," or a Description of the Insects in Germany, 1 vol. 4to. Berlin, 1730.

Froel.—Froelich (J. A.), a German naturalist and physician of Elwangen.

Author of two Memoirs on the Intestinal Worms in the Naturforscher.

Gært.—Gærtner (Joseph), a celebrated botanist of Wirtemberg, born 1732, died 1791.

Author of the Carpologia, and also in his youth of Zoological observations inserted in the Philosophical Transactions, and in the Miscellanea Zoologica of Pallas.

Gaillardot, a physician at Luneville, and an able naturalist.

Author of Memoirs on Fossils, published in the Annales des Sciences Naturelles, &c.

Garden (Alexander), a Scotchman, physician at Charleston, South Carolina, born 1730, died 1771.

He transmitted various observations to Linnæus.

Gaza (Theodore de), a Greek who sought an asylum in Italy in the sixteenth century. He translated into Latin the work of Aristotle upon Animals.

Geb.—Gebler (F.), a Russian naturalist and physician.

"Observationes Entomologicæ," a Memoir in 4to.

Deg.—Geer (Charles, Baron de), Marshal of the court of the Queen of Sweden, and member o the Academy of Stockholm, born 1720, died 1778.

"Mémoires pour servir à l'Histoire des Insectes," 7 vols. 4to. with plates. Stockholm, 1752—1778. An excellent work, that forms a sequel to that of Reaumur. The first two volumes are rare. Retzius has given an abridgment of this work in Latin, entitled,

"Genera et Species Insectorum," 1 vol. 4to. Lipsiæ, 1783.

There is also a German translation of it, enlarged by Goez.

Geoff.—Geoffroy, a celebrated physician of Paris.

"Histoire abrégée des Insectes," 2 vols. 8vo. with plates. Paris, 1764.

This very elementary work has been republished, and augmented by Species added to it, by Fourcroy in his abridgment of the same. See Fourcroy.

"Traité sommaire des Coquilles tant Fluviatiles que Terrestres, qui se trouvent aux environs de Paris," 1 vol. 12mo. Paris, 1767.

A small work, but remarkable for the attempt to class shells according to their animal.

Geoff.—Geoffroy Saint-Hilaire (Etienne), Professor of the Museum d'Histoire Naturelle, and member of the Académie des Sciences, born at Etampes 1773.

I quote his numerous Memoirs published in the Magasin Encyclopedique, the Annales du Museum, and n the great work on Egypt.

Various Memoirs on the organization of the Crustacea and Insects, published in different periodicals, such as the Journal Complementaire des Sciences Medicales, Mémoires du Muséum d'Histoire Naturelle, &c., and his "Philosophie Anatomique," 2 vols. Paris, 1818 and 1822.

Isid. Geoff.—Geoffroy Saint-Hilaire (Isidore), son of the preceding, assistant naturalist of the Museum of Natural History.

Author of various memoirs among those of the Muséum d'Histoire Naturelle, and the Annales des Sciences Naturelles; also of the description of the Fishes of Egypt in the great work on that country.

GEOR.—**GEORGI** (J. T.), a German naturalist, who travelled in the service of the Russian government in 1772, 1773, and 1774.

His travels are printed in German, 2 vols. 4to. Petersburg, 1775.

GERMAR (Ernest Frederick), a German naturalist.

"Dissertatio sistens Bombycum Species," &c., 4to. Halle.

He continues the "Magazin für Insectenkunde," of Illiger.

GM.—**GERMAR** (E. Francis), Professor of Mineralogy at Halle.

"Magazin der Entomologie," 4 vols. 8vo. Halle, 1813—1821.

"Insectorum Species Novæ," first vol. 8vo. with plates. Halle, 1824. See AHRENS.

GESN.—**GESNER** (Conrad), a physician at Zurich, born 1516, died 1565.

I quote his "History of Animals," 3 vols. folio, to which has been added a Treatise on Serpents, and one on the Scorpion. This work, which is arranged alphabetically, is an excellent compilation of all the knowledge of the ancients, and is enriched with useful observations, and numerous wood cuts, most of them good.

GILLIAMS, an American naturalist.

Author of certain Memoirs on Reptiles and Fishes, published in the Journal of the Academy of Natural Sciences of Philadelphia.

GIOENI (Giuseppe), a Sicilian naturalist of the house of Angio.

"Description of a new family and of a new genus of the Testacea," &c., in Italian, pamphlet, 8vo. Naples, 1783.

It is the stomach of the Bulla lignaria, which he has converted into an animal.

GIORNA (M. P.), a Piedmontese naturalist, professor at Turin, born 1741, died 1809.

I quote some of his Memoirs, published among those of the Academy of Turin.

GMELIN (Samuel Theophilus), born at Tubingen 1743, a German naturalist and traveller in the service of Russia, from 1768 to 1774, at which period he died in Persia.

His travels were published in German, 4 vols. 4to. Petersburg, 1770—1784. They abound in valuable articles on Natural History.

GM.—**GMELIN** (John Frederic), Professor of Chemistry at Gottingen, born at Tubingen in 1748, died in 18—.

The author of the thirteenth and last edition of the "Systema Naturæ" of Linnæus. His work, notwithstanding the ignorance of things, want of judgment, and crudity that it exhibits, is still necessary, as being the only tolerably complete account of what had been done down to 1790.

GODART (J. B.), Chief of the Lyceum of Bonn under the Imperial Regime, died 1825.

Editor of the article "Papillon" of the Encyclopédie Méthodique.

"Histoire Naturelle des Lepidoptères ou Papillons de France," 5 (first) vols. 8vo., commenced in 1822.

GOETZ. or rather GOEZ.—**GOEZE** (I. A. E.), pastor of Quedlimbourg, one of the principal writers on the Intestinal Worms, born 1731, died 1793.

"Natural History of Intestinal Worms" (in German), 1 vol. 4to. Brackenberg, 1782.

GOLDFUSS (G. A.), Professor at Bonn.

"A Manual of Zoology," 2 vols. 8vo. Nuremberg, 1820.

Author of various memoirs published among those of the Academia Naturæ Curiosorum.

GORAN (Antoine), Professor at Montpellier.

"Historia Piscium," 1 vol. 4to. Strasburg, 1770.

Of the numerous works published by this learned naturalist, the above is the only one we have had occasion to quote. Strictly speaking, it is a mere description of genera, but drawn up in detail and in technical terms, in the manner of Linnæus. It is preceded by a sort of Ichthyological Philosophy.

Grav.—Gravenhorst (J. L. C.), member of the Physical Society of Gottingen, &c.

"Coleoptera Microptera Brunsvicensia," &c., 1 vol. 8vo. Brunsvigæ, 1802.
"Monographia Coleopterorum Micropterorum," 1 vol. 8vo. Gottingæ, 1806.
"Nosography of the genus Ichneumon," 1 vol. (the first) 8vo. with plates, 1814.
"Monographia Ichneumonum Pedemontanæ Regionis," forming part of the twenty-fourth volume of the Memoirs of the Academy of Sciences of Turin.
"A Monograph of apterous Ichneumons," 1 vol. 8vo. with plates.
The description of a new genus, Helwigia, of the same tribe, an extract of which has been published in the Bulletin Universel of Baron de Ferussac.
"Conspectus Generum et Familiarum Ichneumonidum, auctoribus J. L. C. Gravenhorst et C. G. Neg. ab Esenbeck," 4to.

Gray (J. E.), an English naturalist attached to the British Museum.

Author of Memoirs on Reptiles, in the Annals of Philosophy, 1825, and the Philosophical Magazine, 1827.

Grew (Nehemiah), celebrated for his discoveries in his "Vegetable Physiology," Secretary of the Royal Society of London, died 1711. I sometimes quote his

"Museum Regalis Societatis," folio. London, 1681.

Gronov.—Gronovius (John Frederick).

Author of various Memoirs on Fishes, published among those of various learned bodies, the Philosophical Transactions in particular.

Gronov.—Gronovius (L. Theodore), a municipal officer of Leyden, nephew of the preceding, born 1730, died 1777.

"Museum Ichthyologicum," 1 vol. folio. Leyden, 1754.
"Zoophylacium Gronovianum," 1 vol. folio. Leyden, 1765—1787.

Grundler (G. A.), painter and engraver at Halle.

Quoted for a Memoir in the Naturforscher.

Gualt.—Gualtieri (N.), physician at Florence, previously a Professor at Pisa.

"Index Testarum Conchyliorum quæ adservantur in Museo R. Gualteri," folio. Florence, 1742.
The figures are numerous and exact.

Guer.—Guerin (F. E.), member of the Société d'Histoire Naturelle.

A Memoir on a dipterous Insect of the genus Boletophila, published in the tenth volume of the Annales des Sciences Naturelles.
A second on the Eurypode, a new genus of the Crustacea, in the sixteenth volume of the Memoirs du Museum d'Histoire Naturelle.
A third on a new genus, Themisto, of the same class, in the fourth volume of the Mem. d'Hist. Nat.
"Iconographie du Règne Animal," 4to. 1829. Ten numbers have already been published.
He edited many of the articles relative to Insects in the Encyclopédie Méthodique, and gave the explanations of the plates, relative to those animals, of the same work.

Guldenst.—Guldenstedt (J. A.), of Riga, born 1745, and died at St. Petersburg in 1781; traveller in the service of Russia from 1768 to 1775.

His travels were published in German, 2 vols. 4to. Petersburg, 1787—1791.
We also quote several of his Memoirs, published among those of the Academy of Petersburg.

Guild.—Lansdown Guilding.

"Natural History of the Lamia amputator." Linnæan Transactions, vol. XIII.

Gunner (J. E.), bishop of Drontheim in Norway, born 1781, died 1773.

We quote certain Memoirs published among those of the Society of Drontheim, and of the Society of Sciences of Copenhagen.

Gyllenh.—Gyllenhal (L.), a Swedish naturalist. We quote the fourth part of the first volume of his

"Insecta Suecica," 1 vol. 8vo. Lipsiæ, 1827.

Haan (William de), Curator of the Royal Museum of the Netherlands, at Leyden.

"Mornographiæ Ammoniteorum et Goniatiteorum Specimen," 8vo. Leyden, 1825.

Hagenb.—Hagenbach (J. J.), one of the Curators of the Royal Museum of Leyden, died 1826.

"Mormolyce Novum Genus," 1 vol. 8vo. with a plate. Nurembergæ, 1825.

Hamm.—Hammel (A. D.)

"Entomological Essays," No. 1—6. 8vo. Petersburg, 1821—1827.

"Observations on the Blatta germanica," 8vo. Petersburg, 1821.

Hammer (L. F.), Professor of Natural History at Strasburg, son-in-law of the late Hermann.

We quote his memoir on the American Ostrich, published in the Annales du Museum.

Hardw.—Hardwicke (T.), an English general who resided in India.

I quote several of his papers from the Linnæan Transactions.

Harlan (Richard), an American naturalist and physician, Professor of Comparative Anatomy at Philadelphia.

"Fauna Borealis Americana," 1 vol. 8vo. Philadelphia, 1825, a work which contains the history of the quadrupeds of that country.

He has also published various interesting Memoirs among those of the Lyceum of New York and of the Academy of Natural Sciences of Philadelphia.

Harris (G. P.), an English naturalist.

I quote his description of two new species of Didelphis, inserted in the Linnæan Transactions, vol. IX.

Harr.—Harris (Moses), an English painter.

"An Exposition of English Insects," in French and English, 1 vol. 4to. with coloured plates. London, 1781.

Hart.—Hartmann, painter and engraver of subjects of Natural History at St. Gall.

Author of a System of the terrestrial and fluviatile Testacea of Switzerland.

Hasselq.—Hasselquist (Fred.) a Swedish naturalist, one of the first pupils of Linnæus, born 1722, died 1752.

His Travels in the East were published by Linnæus in the Swedish language, with Latin descriptions of the animals and plants. Stockholm, 17—.

There is a French translation without the descriptions, 1 vol. 12mo. Paris, 1769.

Hasselt (J. C. Van), a young Hollander, physician, and naturalist, the friend and companion of Kulh, whom he survived but a few months.

Hegetsch.—Hegetschweiler (J. J.), a naturalist of Switzerland.

"Dissertatio Inauguralis Zootomica de Insectorum Genitalibus," 1 vol. 4to. Turici, 1820.

Helw.—Helwigg (J. C. L.)

"Fauna Etrusca, &c. Petrii Rossii, iterum edita et annotatis perpetuis aucta," 1 vol. 8vo. Helmstadii, 1755. See Illiger.

Herbst (J. F. W.), a preacher at Berlin, born 1743.

"Natursystem aller Bekanten in und Auslændischen Insekten," &c. von Carl. Gustaf Jablousky forgesetz, von J. F. W. Herbst, 10 vols. 8vo. with an atlas of coloured plates to each volume. Berlin, 1785, et seq. It is a treatise on the Coleoptera.

"Versuch einer Naturgeschichte der Kraben und Krebse," 3 vols. 4to. with sixty-two coloured plates. Berlin, 1790—1803. A treatise on the Crustacea, and a useful compilation containing several new figures.

"Natursystem der ungeflugelten Insecten" (the genera Solpuga, Tarentula, and Phalangium), 1 vol. 4to. with coloured plates. Berlin, 1797.

"Natursystem der ungeflugelten Insekten" (genus Scorpio), 1 vol. 8vo. Berlin, 1708.

"Archiv der Insecten Geschichte, Herausgegeben," von J. Casp. Fuesly, 1 vol. 4to. with coloured plates. Zurich and Wintertkar, 1791. This work has been translated into French.

He has also published a Monograph of the Linnæan genus Papilio, representing all the species, but as most of the figures are copies, I have not quoted it.

Herm.—Hermann (John), Professor at Strasbourg, a laborious and erudite naturalist, born 1738, died 1800.

"Tabula Affinitatum Animalium," 1 vol. 4to. Strasbourg, 1783.

"Observationes Zoologicæ Posthumæ," 1 vol. 4to. Strasbourg and Paris, 1804.

Herm.—Hermann (J. F.), son of the preceding, born in 1768, died before his father, 1793.

He has left an "Apterological Memoir," 1 vol. fol. Strasbourg, 1804.

Hoev.—Vander Hoeven (John) Professor at Leyden.

Author of a "Manual of Zoology," in Dutch, 2 vols. 8vo. Delft, 1827; of a "Thesis de Sceleto Piscium," 8vo. Leyden, 1822; and of a Memoir on the Ornithorhynchus, &c.

Hoffman.—Hofmansegg (C.), a learned naturalist of Saxony, and a zealous protector of the sciences.

Author of various Memoirs on the animals of the Brazils and Portugal.

Holten, a Danish naturalist.

Quoted as author of a Memoir published in the fifth volume of the Soc. of Natural History of Copenhagen.

Home (Sir Everard), the celebrated surgeon, curator of the Hunterian Museum, at London, and fellow of the Royal Society.

"Lectures on Comparative Anatomy," 6 vols. 4to. London, 1814—1828.

I also quote several of his Memoirs published in the Philosophical Transactions.

Hopp.—Hoppe (D. H.), druggist at Ratisbon.

"Enumeratio Insectorum Elytratorum Indigenorum," 1 vol. 4to. with coloured plates. Erlangæ, 1795. It is a useful work in studying the Donaciæ.

Horns.—Hornstedt, a Swede who travelled in Java.

Quoted for a Memoir on the Acrochordus, published among those of Stockholm, 1787.

Horsf.—Horsfield (Dr. Thomas), an English naturalist.

"Zoological Researches in Java and the neighbouring Islands," 4to. with excellent plates. London, 1825.

He also published the first number of a "Descriptive Catalogue of the Lepidoptera in the Museum of the East India Company," 4to. London, 1828.

Houtt.—Houttuyn (Martin).

Author of certain Memoirs among those of the Academy of Haarlem; of a Dutch translation taken from the Systema of Linnæus, &c. He is also the continuer of Noseman's History of the Birds of the Netherlands.

Hub.—Huber (Francis), corresponding member of the Academy of Sciences of Geneva. Deprived of sight, but still a most perspicacious observer.

"Nouvelles Observations sur les Abeilles," 2 vols. 8vo. with plates. Paris and Geneva, 1814. The second volume is from the pen of his son.

Hub.—Huber (Peter), son of the preceding.

"Recherches sur les mœurs des Fourmis Indigénes," 1 vol. 8vo. with plates. Paris and Geneva, 1810.

"Observations sur les Bourdons," published in the sixth volume of the Transactions de la Société Linnéenne.

Hubn.—Hubner (J.), painter at Augsburg.

His Iconographic work on the Lepidoptera of Europe is the most complete and perfect of the kind hitherto published. The text is in the German language. He is about to give us the

Exotic Lepidoptera, of which several plates have already appeared; the whole number, in royal 8vo. will amount to near a thousand.

Humb.—Humboldt (Alexander de), member of the Académie des Sciences, of the Academy of Berlin, &c. &c., born 1769.

Of the works of this illustrious savant I chiefly quote the

"Observations de Zoologie et d'Anatomie Comparée," of which there are already published fourteen numbers, 4to. Paris, 1811—1827.

Hunter (John), the celebrated Scotch surgeon who settled in London, born 1728, died 1793.

I quote his Treatise on the teeth, and various Memoirs inserted in the Philosophical Transactions.

Huzard, Jun., who in conjunction with M. Pelletier published

"Recherches sur le genre Hirudo." Paris, 1825.

Illig.—Illiger (J. C. G.), Professor at Berlin; he died young.

"Prodromus Systematis Mammalium et Avium," 1 vol. 8vo. Berlin, 1811. A work remarkable for the precision which the author endeavours to give to the genera of these two classes, and for the elegance of its nomenclature.

"Verzeichniss der Kœfer Preussens," or a Catalogue of Prussian Insects, a work commenced by Theophilus Kugelann, and terminated by I. Illiger, 1 vol. 8vo. Hall., 1798.

"Magasin far Insectenkunde," 7 vols. 8vo. Brunswick, 1801—1807.

"Systematisches Verzeichniss von den Schmetterlingen der Wiener Gegend," 2 vols. 8vo. Brunswick, 1801. It is a new edition of the "Systematic Catalogue of the Lepidoptera of the Environs of Vienna."

He has also continued the "Fauna Etrusca" of Rossi, commenced by Helwigg, vol. ii. 8vo. Helmstadii, 1807.

Ittiol. Veron.—Ittiolitologia Veronese.

A great work on the Petrified Fishes of Mount Bolca, where, notwithstanding its magnificence, they are neither faithfully delineated nor well characterized.

Jacq.—Jacquin (N. J. de), a celebrated botanist and professor at Vienna, born at Leyden, 1727, died in 18—.

"Miscellanea Austriaca," 2 vols. 4to. Vienna, 1778, 1781. It contains some observations relative to animals.

Jacq—Jacquin (J. F. de), son of the preceding.

The author of "Materials for a History of Birds" (in German), 1 vol. 4to. which contains some figures of rare birds. Vienna, 1784.

Johns.—Johnson (J. Rawlins), an English naturalist.

"A Treatise on the Medicinal Leach," 8vo. London, 1816, and the second part, Ibid. 1825.

"Observations on the genus Planaria," Philosophical Transactions, 1822, and continued in 1825.

Jour. d'Hist. Nat.

By this title we designate a periodical work, of which only two volumes 8vo. were published, and which were united under the name of "Choix de Mémoires sur divers objets d'Histoire Naturelle, par MM. Lamarck, Brugières Olivier, Haüy et Pelletier." Paris, 1792.

Journ. de Phys.

Under this appellation I quote the "Observations sur la Physique, l'Histoire Naturelle et les Arts," of which 2 vols. appeared annually, from 1773 to 1823: at first under the direction of the Abbé *Rozier*, then under that of *Lamatherie*, physician and adjunct professor in the Collége de France, and finally under the superintendence of M. de Blainville.

Jurine (Louis), Professor of Anatomy and Surgery at Geneva.

"Nouvelle méthode de classer les Hyménoptères at les Diptères," with plates, Hymenopteres, vol. 1. 4to. Geneva, 1807; a very superior work, and indispensable for the study of this order.

"Observations sur le Zenos vesparum," a memoir in 4to. with one plate, 1816.

"Observations sur les ailes des Hyménoptères," a memoir, with plates, published in the twenty-fourth volume of the Memoirs of the Academy of Sciences of Turin.

"Histoire des Monocles," 1 vol. 4to. with plates. Geneva, 1820.

His second son, whose demise is to be regretted, has published in the seventh volume of the Annales du Muséum, &c., an excellent Memoir on the Argulus foliaceus. See Argulus in this work.

Kæmpf.—Kæmpfer (Engilbert), a German physician, who travelled in Persia, India, and Japan, born at Lemgo, in the county of Lippe in 1651, died 1713.

"Amœnitatum Exoticarum," fascic. V. 4to. Lemgo, 1712.

"A Description of Japan" in German, translated into French under the title of "Histoire Naturelle, Civile et Ecclésiastique du Japan," 2 vols. folio. La Haye, 1729.

Kaup, a German naturalist.

Author of the notes on Reptiles in the Isis of Oken.

Kirb.—Kirby (Wm.), an English clergyman, member of the Linnæan Society, rector of Barham, in the county of Suffolk, &c.

"Monographia Apum Angliæ," 2 vols. 8vo. with plates. Ipswich, 1802.

He has published, in the ninth volume of the Transactions of the Linnæan Society, a Monograph of the Bees of England, and in the eleventh, that of the Strepsiptera.

He has lately, in conjunction with M. Spence, published a new edition of the "Introduction to Entomology," 4 vols. 8vo. with plates. London, 1828.

He has also written several Memoirs on various Insects, for the Linnæan Transactions, and the Zoological Journal, most of which we have quoted.

Kleem.—Kleeman (C. F. C.), a painter at Nuremberg, born 1735, died 1789.

"Beytræge zur Natur Oder Insectengeschichte," 1 vol. 4to. Nüremberg, 1761. A supplement to the work of Rœsel his father-in-law, forming the fifth volume.

Kl.—Klein (J. T.), Secretary of the Senate of Dantzick, a laborious author who has written on every branch of natural history, but without taste or genius; born in 1685, died 1759.

"Summa Dubiorum circa classes Quadrupedum et Amphibiorum Linnæi," 1743.

"Quadrupedum Dispositio et brevis Historia Naturalis," 1751.

"Historiæ Avium Prodromus," 1750.

"Stemmata Avium," 1759.

"Tentamen Herpetologiæ," 1755.

"Historiæ Naturalis Piscium promovendæ missus," V. 1740—1749.

"Mantissa Ichthyologica," 1746.

"Methodus Ostracologica," 1753.

"Descriptiones Tubulorum Marinorum," 1737.

"Naturalis Dispositio Echinodermatum," 1734.

Klug.—Klug (Francis), physician at Berlin.

"Monographia Siricum Germaniæ, atque Generum illis Adnumeratorum, cum tabulis æneis coloratis VIII." 1 vol. 4to. Berlin, 1803.

Various Memoirs on different genera or species of Hymenoptera published among those of the Society of Naturalists of Berlin.

"A Critical Review of the Genera of Fabricius derived from that of Apis, Lin." in the Entomological Magazine of Illiger, 1807.

"Entomologische Monographien," 1 vol. 8vo. with plates. Berlin, 1824.

"Proscopia, Novum Genus Insectorum Orthopterorum," folio, with 2 plates.

"Entomologiæ Brasilianæ Specimen."

And several Monographs in the German language.

Knoch (A. G.)

"Neue Beytraege zur Insectenkunde," 1 vol. 8vo. with plates. Leipsic, 1801.

Knorr and Walch, or Knorr, &c., or Walch Petrif. of Knorr.

Knorr (George Wolgang), an engraver at Nuremberg, born 1705, died 1761, and

Walch (J. E. E.), Professor at Jena, jointly published a work called the

"Collection of the Monuments of the revolutions experienced by the terrestrial globe, containing petrifactions, &c. 4 vols. Nuremberg, 1775—1778.

I quote them in relation to certain Testacca and Lithophyta.

I also quote, under the title of Knorr Vergn., or Knorr Delic., a work of the same engraver, editions of which are to be found in various languages, styled in German, Vergnügungen, &c. Deliciæ, in Latin, and in French, Amusements des yeux et de l'esprit, or Collection de Coquillages,

&c. 6 vols. 4to. Nuremberg, 1760, 1773.

KŒHL.—KŒHLREUTER (J. G.)

We quote several of his Memoirs, inserted in the Nov. Comment., Acad. Petrop.

KRUSENSTERN, a Russian admiral,

Whose voyage round the world contains several observations relative to Natural History by Tilesius.

KUHL (Henry), a young naturalist of Hanau, born in 1797, who died at Batavia, where he was engaged in collecting for the Museum of the Netherlands, in company with a young Hollander named Van Hasselt. Their collections were immense, and included all the classes. Kuhl has left us in German

"Materials for Zoology and Comparative Anatomy, Monographs of the Parrots, Petrels, Bats of Germany," &c.

LAC. or LACEP.—LACEPEDE (B. G. E. de la Ville Courte de), Professor of the Muséum d'Hist. Nat., member of the Académie des Sciences, &c. &c. born at Agen.

I have frequently quoted his three principal works, which form a sequel to the great "Histoire Naturelle" of Buffon.
"Histoire Naturelle, Générale et Particulière des Quadrupèdes Ovipares et des Serpents," 2 vols. 4to. Paris, 1788—1789.
"Histoire Naturelle, &c. des Poissons," 5 vols. 4to. Paris, 1798—1803.
"Histoire Naturelle, &c. des Cetacés," 1 vol. 4to. Paris, 1804.
Also certain Memoirs in the Annales du Muséum.

LAET (Jean de), a geographer of Antwerp in the seventeenth century.

"Novus Orbis, seu Descriptionis Indiæ Occidentalis," lib. XVIII. 1 vol. folio. Leyden, 1633.

LAICH. — LAICHARTING (J. N. de), Professor at Inspruck, born 1757.

"Verzeichniss der Tyroler Insecten," with plates, 2 vols. 8vo. Zurich, 1781—1784.

LAM.—LAMARCK (Jean-Baptiste DE MONNET, Chevalier de), Professor of the Muséum d'Hist. Nat., and member of the Academie des Sciences, born at Basentin, in Picardie in 1743; died at Paris in December 1829.

Of the numerous works of this celebrated naturalist I have chiefly quoted the
"Système des Animaux sans vertèbres," 1 vol. 8vo. Paris, 1801.
"Extrait du Cours de Zoologie sur les Animaux sans vertèbres," 8vo. Paris, 1812.
"Histoire Naturelle des Animaux sans vertèbres," 7 vols. 8vo. Paris, 1815—1822.
"Mémoires sur les Coquilles," published in the Annales du Muséum.
The author having become blind during the publication of this work, was aided, in the Bivalves, by M. Valenciennes, and in the following classes, by Mademoiselle Lamarck, his eldest daughter.

LAMARTINIERE, a French naturalist, one of the unfortunate companions of La Peyrouse.

Quoted for a Memoir on some parasitical animals, published in the Journal de Physique for 1787, and at the end of the Voyage de la Peyrouse.

LAMBERT, an English naturalist.

Author of Memoir on the Bos Frontalis, in the seventh volume of the Linnæan Transactions.

LAMOUR. — LAMOUROUX (J. V. F.), a naturalist of Agen, Professor at Caen.

Quoted for certain Memoirs in the Annales du Muséum, and for a "Histoire des Polypiers," of which I saw a part in MS., at the time of my first edition. It was published in 1 vol. 8vo. 1817.
"Exposition Méthodique de l'ordre des Polypiers," with the plates of Ellis and Solander, and some new ones, 1 vol. 4to. Paris, 1821.
"Dictionnaire des Zoophytes," forming part of the Encyclopédie Méthodique, 4to. Paris, 1824.

LANGSD. — LANGSDORF, a German naturalist who accompanied Admiral Krusenstern, and established himself at Brazil.

Author of certain Memoirs, and quoted as having given names to the various objects he discovered.

Lapeyr.—Lapeyrouse (Philippe Picot, Baron de), Professor of Natural History at Toulouse.

"Description de plusieurs espèces d'Orthoceratites et d'Ostracites," 1 vol. folio, Huremb. 1781.

I also quote certain articles written by him for the Dictionnaire des Oiseaux of the Encyclopédie Méthodique.

Laroche (De), a young physician of Paris, prematurely snatched from the sciences by death.

Author of Memoirs in the Annales du Muséum, and one in particular, Sur les Poissons d'Ivica, in the thirteenth volume of that collection.

Lasp.—Laspeyres (J. H.), a municipal officer of Berlin.

"Sesiæ Europeæ, Iconibus et Descriptionibus illustratæ," 1 vol. 4to. Berlin, 1801.

"Critical observations on the Systematic Catalogue of the Lepidoptera of the Environs of Vienna," inserted in the Magazin für Insecktengunde of Illiger, &c.

Lath.—Latham (John), Fellow of the Royal Society, born 1740.

This author has enriched the science of Ornithology, in particular, with new and beautiful species, but his works, which are not written with critical accuracy, should be read with caution.

"A General Synopsis of Birds," 3 vols. 4to. and two Supplements. London, 1782, et seq.

"Index Ornithologicus," 2 vols. 4to. London, 1790.

Lat. — Latreille (Pierre-André), Professor of the Muséum d'Histoire Naturelle, member of the Académie des Sciences, &c. born at Brives, in 1762.

"Histoire Naturelle des Salamandres," 1 vol. 8vo. with plates. Paris, 1800.

"Histoire Naturelle des Reptiles," forming a sequel to Deterville's Buffon, 4 vols. 12mo. with plates.

"Précis des Caractères Génériques des Insectes," 1 vol. 8vo. Brives, 1796.

"Genera Crustaceorum et Insectorum," 4 vols. 8vo. with plates. Paris, 1806—1807.

"Histoire Naturelle des Crustacés et des Insectes," forming a sequel to Sonnini's edition of Buffon, 14 vols. 8vo. with plates. Paris, 1802—1805.

"Histoire Naturelle des Fourmis," 1 vol. 8vo. with plates. Paris, 1802.

His Memoirs inserted in the Annales du Muséum, &c.

The entomological portion (partly written by him) of the Nouveau Dictionnaire d'Histoire Naturelle, and of the Encyclopédie Méthodique, and the whole of the same part in the Observations de Zoologie et d'Anatomie Comparée, or the second part of the Travels of Messrs. de Humboldt and Aimé Bompland.

"Mémoires de la Soc. d'Histoire Naturelle de Paris," 4to.

"Esquisse d'une Distribution Générale du Règne Animal," 1 vol. 8vo. Paris, 1824.

"Familles Naturelles du Règne Animal," 1 vol. 8vo. Paris, 1825.

Various general Memoirs on Insects, published among those of Mus. d'Hist. Nat.

The description of the Insects collected by Caillaud in his travels in Nubia, which forms part of this Narrative.

The Entomological portion of the second edition of the Nouveau Dictionnaire d'Histoire Naturelle, and various articles of the Dictionnaire Classique d'Histoire Naturelle, as well as those relative to the same subject, of the Encyclopédie Méthodique.

The description (Ann. der Sc. Gener.), of a new genus of Spider.

Laur. or Laurent.—Laurentini (J. N.), a physician of Vienna.

"Specimen medicum exhibens Synopsin Reptilium emendatum," 1 vol. 8vo. Vienna, 1768.

This thesis is said to have been written by Winterl, since celebrated as a paradoxical chemist.

Leach (W. E.), an English physician and naturalist, one of the Curators of the British Museum.

A Monograph of the genus Meloe, with plates, inserted in the Transactions of the Linnæan Society.

"MalacostracaPodophthalma Britanniæ," 4to. with fine coloured plates. London, 1815, 1816. Eight numbers have been published.

"A General Arrangement of the Classes Crustacea, Myriapoda and Arachnides, constituting part of the eleventh volume of the Transactions of the Linnæan Society. An extract of this work is given in the Bulletin de la Société Philomatique.

"On the Classification of the Natural Tribes of Insects, Notonectidea," published in the twelfth volume of the above mentioned Transactions.

"Description of some new genera and species of Animals discovered in Africa," by T. C. Bowdich, a half sheet in 4to.

"Zoological Miscellany," 3 vols. 8vo. London, 1817.

"On the Genera and Species of Proboscideous Insects," 1 vol. 8vo. with plates. Edin. 1817.

"Appendix, No. 10, to a general notice of the animals taken by Mr. John Cranch, during the expedition to explore the source of the river Zaire," 4to.

Various articles in the Dictionnaire des Sciences Naturelles, relative to the Crustacea, and Memoirs in the Linnæan Transactions.

Le Cl.—Le Clerc, naturalist at Laval, author of

"Observations sur la corne du Psile de Bosc," presented to the Academie des Sciences, in 1815, and of other interesting observations.

Lec., or **Le C.—Le Conte**, an American naturalist, and officer in the service of the United States.

Author of various memoirs on Quadrupeds, Reptiles, &c., published in the Journal of the Academy of Natural Sciences of Philadelphia.

Lefebv.—Lefebvre (Alexander), a French naturalist,

Has published in the Annales de la Société Linnéenne, a description of several new Insects taken by him in Sicily, and that of three Lepidoptera.

Legaut (François), a Protestant of Burgundy, who sought refuge in Holland.

"Voyages et Aventures de Fr. Leguat et de ses Compagnons," 2 vols. 12mo. London, 1720. They contain good figures of various animals.

Leisler.

Author of a Supplement to Bechstein's Birds of Germany. Hanau, 1812, 1813.

Lepel.—Lepelletier de Saint Fargeau (Amédée), a naturalist of Paris. Author of

"Monographie des Chrysis des Environs de Paris," in the Ann. du Mus. d'Hist. Nat., No. 58.

"Mémoire sur les Araignées" in the Bulletin de la Société Philomathique, April 1813, No. 67.

"Monographia Tenthredinetarum Synonymia Extricata," 1 vol. 8vo. Paris, 1823.

Jointly with M. de Serville, of the article on Insects in the tenth volume of the Encyclopédie Méthodique.

He has communicated to the Académie des Sciences, Observations on the coition of different species of Volucella, a genus of Dipterous Insects.

Leske (N. G.), Professor at Leipsick, and subsequently at Marburg, born 1752, died 1786.

"Museum Leskeanum, Regnum Animale," 1 vol. 8vo. with coloured plates. Lips. 1789.

I also quote him for his enlarged edition of "Klein's Treatise on the Echini," 1 vol. 4to. Lips. 1778.

Less.—Lesson (R. P.), naturalist, jointly with M. Garnot, of Duperrey's Expedition in the Coquille.

These two naturalists have edited the Zoological part of the narrative of the above expedition; that part is not yet completed. M. Lesson is also the author of the

"Manuel de Mammalogie," 1 vol. 12mo. Paris. 1827.

"Manuel d'Ornithologie," 2 vols. 12mo. Paris, 1820.

"Manuel de l'Histoire des Mollusques et de leurs Coquilles," 2 vols. 12mo. Paris, 1829. His

"Histoire des Oiseaux Mouches," with excellent plates, now being published.

Lesuer (C. A.), a French naturalist, from Havre.

One of the draughtsmen who accompanied Baudin, and one of Péron's most efficient and zealous co-operators in Zoological researches. He has published some Zoological Observations in the Bulletin des Sciences, and the prospectus of a great work on the Medusæ, accompanied by specimens of several of the plates. He has also furnished various papers for the Journal of the Academy of Natural Sciences of Philadelphia, the Mémoires du Mus. d'Hist. Nat., &c.

Leukard (F. S.), author of

"Zoological Fragments," Helmstadt, 1819.

The Mollusca of the Voyage of Ruppel.

Lew.—Lewins (J. W.), author of the

"Natural History of the Lepidopterous Insects of New South Wales," with coloured plates, 1 vol. 4to. London, 1805.

"Natural History of the Birds of New Holland."

Licht.—Lichtenstein (A. A. H.), Professor of the Oriental Languages at Hamburg, born in 1753.

A dissertation on the genus Mantis of Linnæus, in the sixth volume of the Linnæan Transactions.

Lichtenstein (H.), Professor at Berlin.

"Voyage to the Cape of Good Hope," 2 vols. 8vo. Berlin, 1811.

Various Memoirs on the Antilopes, the genus Dipus, the Animals of Marcgrave, &c. published among those of the Academy of Berlin.

Lindroth, a Swedish naturalist.

Author of a paper in the nineteenth volume of the New Stockholm Memoirs.

Link (J. H.), a physician at Leipzic, born in 1674, died in 1734.

"De Stellis Marinis, liber singularis," published by Christ. Gabr. Fischer, 1 vol. folio. Leipzic, 1733.

L. or Lin.—Linnæus or Linne (Charles de), Professor of Natural History at Upsal, and author of the great reform in the nomenclature of natural History. He was born in 1707, and died in 1778. I quote his

"Systema Naturæ," particularly the tenth edition of 1757; the twelfth of 1766; and above all, the thirteenth edition, published by Gmelin, 7 vols. 8vo. Leipzic, 1788.

"Amœnitates Academicæ," a collection of theses, in 10 vols. 8vo. 749 et seq.—1790.

"Museum Adolphi Frederici Regis," with thirty-three plates, 1 vol. folio. Stockholm, 1754.

The author himself, in his other works, quotes a second volume of this latter one; it is a small octavo.

"Musæum Ludovicæ Ulricæ Reginæ," 1 vol. 8vo. Stockholm, 1764.

"Fauna Suecica," 1 vol. 8vo. first edition, 1746; second, 1761; the third by Retzius, Leipzic, 1800, only containing the Vertebrata.

Lin. Trans., or **Trans. Lin. Soc.**, or **Lin. Soc.**

"Transactions of the Linnæan Society of London," 13 vols. 4to. London, 1791, et seq.

Lister (Martin), an English naturalist, and physician to Queen Anne, died 1711.

"Historia sive Synopsis Methodica Conchyliorum," with 1059 engravings, 1 vol. folio. London, 1689—1693.

There is another edition, with the synonymes of Linnæus, published by William Huddesford. London, 1770.

"Historia Animalium Angliæ, de Araneis, de Cochleis, tum Terrestribus tum Fluviatilibus, de Cochleis Marinis." London, 1678.

The part relating to the Spiders is also found in the "Historia Insectorum" of Ray.

Lyon.—Lyonnet (Peter), Interpreting Secretary to the United Provinces, born in 1707, died in 1789.

"Traité Anatomique de la Chenille du Saule," 4to. La Haye, 1762, with plates, engraved by the author, a work which is at once the masterpiece of engraving and anatomy.

Macl., or **Mac L.—Mac Leay** (W. S.), of the Linnæan Society of London.

"Horæ Entomologicæ," 8vo. vol. 1st, in two parts, with plates. London, 1819, 1821.

"Annulosa Javanica," 4to., with plates. No. 1. London, 1825.

He has also published some general Memoirs on Insects, not referred to, however, in this work.

Maccar.—Maccari (P.), member of the Société de Medicine of Marseilles, &c.

" Mémoire sur le Scorpion qui se trouve sur la Montaigne de Cette," &c. 1 vol. 8vo. 1810.

Macq.—Macquart (J.), member of the Société Royale des Sciences, d'Agriculture et des Arts of Lille.

A series of Memoirs on the " Insectes Diptères du Nord de la France," with plates representing their wings, published among those of the above Society, which form 4 vols. 8vo. with plates, Lille, 1826—1829.

Macri (Zaverio), a Neapolitan naturalist.

" New Observations on the Pulmo Marinus of the Ancients," in Italian, 1 vol. 8vo. Naples, 1778.

Mann.—Mannerheim (C. G.), counsellor to the Emperor of Russia.

" Eucnemis Insectorum genus," with two plates, 1 vol. 8vo. Petrop., 1823.

" Observations on the genus Megalopus," in the tenth volume of the Memoirs of the Imperial Academy of Sciences of St. Petersburg, 1824.

" Description of forty new species of Scarabæides from Brazil," with plates, 4to.

Mantell (G.), member of the College of Surgeons of London resident at Lewes.

" Illustrations of the Geology of the County of Sussex," 2 vols. 4to. London, 1822, 1827.

Marcgr.—Marcgrav de Leibstadt (George), of Meissen in Saxony, a traveller in Brazil; born 1610, died in Guinea, 1644.

" Historiæ Rerum Naturalium Brasilæ," lib. 8, in fol. Leyden and Amsterdam, 1648. An excellent work for the times, full of exact descriptions, and recognizable though rude figures of all kinds of animals.

Marsh.—Marsham, an English naturalist, Treasurer of the Linnæan Society, &c.

" Entomologia Britannica, sistens Insecta Britanniæ Indigena, secundum methodum Linnæanum disposita," tom. I., Coleoptera. London, 1802.

" A monograph of the genus Notoclea" (Paropsis, Olivier), with plates, published in the ninth volume of the Transactions of the Linnæan Society.

Martens (Frederick), a surgeon at Hambourg.

" A Voyage to Spitzberg," in German, 1 vol. 4to. Hambourg, 1675.

It is useful with respect to animals of the Arctic Ocean.

Martens (George de), Secretary of the Supreme Court of Wirtemberg.

" A Voyage to Venice," 2 vols. 8vo. Ulm, 1824. It contains a Catalogue of the Fishes of that port.

Martini (F. H. G.), a physician of Berlin, born 1729, died 1778. He commenced the great conchyliological work entitled the

" Systematic Cabinet of Shells," 10 vols. 4to. and 1 of Suppl., with coloured plates. Nuremberg.

The first three volumes, 1769—1777, are from his pen, the other from that of Chemnitz.

Mathiole (P. A.), of Sœna, born 1500, died 1577.

In his Commentary on Dioscorides, he enters into details of various animals.

Maud.—Mauduit (R. J. E.), a physician at Paris, who died in 1792.

Author of the "Dictionnaire des Oiseaux" of the Encyclopédie Méthodique.

Maupert.—Maupertius (P. L. M. de), member of the Académie des Sciences, president of that of Berlin, &c. born 1678, died 1759. An astronomer and geometrician, also author of certain Memoirs on Natural History.

" Expériences sur les Scorpions," in the Mémoires de l'Acad. des Sciences, 1731.

Maurice de Nassau (Prince),

or rather Count John Maurice de Nassau-Siegen, born 1604, the Dutch governor of Brazil from 1637 to 1644.

He encouraged the labours of Marcgrave in that country, and drew several fishes which have been engraved and published in the Ichthyology of Block. He died in the service of Brandebourg in 1679.

Meckel (J. F.), Professor at Halle. We quote his

" Materials for Comparative Anatomy" (in German,) 8vo. Leipzic, 1808.
" A treatise on the Ornithorhynchus," folio. Leipzic, 1826.

Meg.—Megerle de Muhlfield (J. C.)

Author of " A Classification of Bivalve Shells," inserted in the Magazine of the Society of the Friends of Nature of Berlin.

Mehlis (Edward).

" De Distomate Hepatico et Lanceolato," folio. Gottingen, 1825.

Meig.—Meigen (J. G.), a German naturalist.

This author has published (in German), a work on the " Diptera of Europe," now forming 5 vols. 8vo. accompanied with plates representing at least one species of each genus, with the details of their characters.
M. Baumauer published an extract from the same work, under the title of a " Nouvelle Classification des Mouches à deux ailes," 8vo. Paris, 1800.

Mem. de la Soc. d'Hist. Nat.

" Mémoires de la Société d'Histoire Naturelle de Paris," 1 vol. 8vo, 1799, the only one that appeared.
There is another work with a similar title, in 3 vols. 4to. 1823, et seq.

Merian (M. S.), a German lady established in Holland, born 1647, died 1717. She has left us two posthumous works, remarkable for the beauty of the drawings:

" De Generatione et Metamorphosibus Insectorum Surinamensis," 1 vol. folio. The Hague, 1726.
" Histoire des Insectes d'Europe," translated into French by Mairet, 1 vol. folio. Amsterdam, 1730.

Merr.—Merrem (Blaise), born at Bremen, Professor of Natural History at Marburg.

" Avium Rariorum et minus Cognitarum Icones et Descript.," four Nos. 4to. Leipzic, 1786.
" Materials for the Natural History of Reptiles " (in German), 2 Nos. 4to. Duisbourg and Lemgo, 1790. All that it contains relates to Serpents.
" Tentamen Systematis Amphibiorum," in Latin and German, 1 vol. 8vo. Marburg, 1820.

Mesnard. — Mesnard de la Groye, a naturalist of Angers, and my adjunct in the Collége de France, died in 1827.

Author of various Memoirs in the Annales du Museum, Journal de Physique, &c.

Meyer and Wolf.

" Taschenbuch," &c. or Almanack of the Birds of Germany, 2 vols. 8vo. Franckfort, 1810. The first volume contains the terrestrial birds by Wolf; the second the water-birds by Meyer. This work is filled with excellent observations.

Mig.—Miger (Felix), a naturalist at Paris.

" Mémoire sur les Larves des Insectes Coléoptères Aquatiques," inserted in the fourteenth volume of the Annales du Museum

Mik.—Mikau (I. C.), a Bohemian naturalist.

" Monographia Bombyliorum Bohemiæ," with plates, 8vo. Prague, 1796.

Miller (J. S.), an English naturalist.

" Natural History of the Crinoides," and a " Memoir on the Belemnites," 4to. Bristol, 1821. In the Transactions of the Geological Society of London, second series, vol. II. part I.

Mitchell, an American naturalist and physician.

I chiefly quote his work on the " Fishes of New York," in the Trans. of the Literary and Philosophical Society of New York. He has also published other Memoirs in the Annals of the NewYork Lyceum, and in the Journ. of the Academy of Natural Sciences of Philadelphia.

Moehr.—Moehring (P. H. G.), a physician at Jever.

"Avium Genera," 8vo. Aurich, 1752.

Molin.—Molina (the Abbé J. I.), an ecclesiastic of Chili, resident in Italy.

"Essai sur l'Histoire Naturelle du Chili," in Latin, and translated into French by Gruvel, 1 vol. 8vo. Paris, 1789. This work was written in Italy from memory, and contains many doubtful passages.

Montag.—Montagu (George), an English naturalist.

Author of descriptions of various species of Birds, Fishes, Mollusca and Crustacea, in the Transactions of the Linnæan and Wernerian Societies of London.

Montegre a physician of Paris, who died in the colonies.

I quote his "Mémoire sur les Vers de Terre," published in the Mémoires du Muséum.

Montf.—Montfort (Denis de), a singular man, who styled himself an ancient naturalist of the King of Holland; he perished through want in the streets of Paris in 1820 or 1821. I principally quote his

"Conchyliologie Systématique," a sort of Genera Conchyliorum, where the genera are extremely numerous, and represented by wood cuts, executed by the author, in as exact a manner as can be done by that species of engraving.

There are but two volumes 8vo. which contain the Univalves only. Paris, 1808, 1810.

He is also the author of the first four volumes of the "Histoire Naturelle des Mollusques," that form a sequel to Sonnini's Buffon, Paris, 1802, in which he has inserted apocryphal figures. They merely contain the generalia and the Cephalopoda.

Moq. Tand.—Moquin-Tandon (A.), a physician of Montpellier, Professor at Marseilles.

"Monographie de la famille des Hirudinées," 4to. Montpellier, 1826.

Moreau de Jonnes, corresponding member of the Institute.

Quoted as author of several Memoirs on the animals of the Antilles.

Morren (C. F. A.), a naturalist of Belgium.

"De Lumbrici Terrestris Historia Naturali nec non Anatomia," 4to. Brussels, 1829.

Mouff. — Mouffet (Thomas), an English naturalist, died about 1600.

"Insectorum sive Minimorum Animalium Theatrum," 1 vol. folio, with five hundred wood cuts. London, 1634.

It was published by Theodore de Mayerno, a Frenchman and physician to James I. It is the first special work on Insects.

Stat. Mull.—Muller (Philip Louis Statius), Professor at Erlang, born in 1725, died 1776.

Author of a bad translation, into German, of the Systema Naturæ of Linnæus, from the Dutch translation of Houttuyn, 9 vols. 8vo. Nuremb. 1773—1776, containing the animals only.

Mull.—Muller (O. F.), a Dane, Counsellor of State, and one of the most laborious observers of the eighteenth century, born 1730, died 1784. I quote his

"Von Würmern der Süssen und Salzigen Wassers," 1 vol. 4to. or fresh and salt water worms.

"Vermium Terrestrium et Fluviatilium Historia," 2 vols. 4to.

"Zoologia Danica," folio, with coloured plates. The first three numbers, Copenhagen, 1788, 1789, are from his pen; the fourth from Abildgaardt, Vahl, &c.

"Zoologia Danica, Prodromus," 1 vol. 8vo. Haniæ, 1776.

"Entomostraca seu Insecta Testacea," 1 vol. 4to. with plates. Lips. and Havniæ, 1785.

"Hydrachnæ," 1 vol. 4to. with coloured plates. Lipsiæ, 1781.

"Animalcula Infusoria," 1 vol. 4to.

Naccari (L. F.), librarian of the seminary of Chioggia.

"Ittiologia Adriatica," published in the Physical Journal of Pavia, vol. V. Dec. 11, 1822.

Nardo (Domenico), an Italian naturalist established at Chioggia.

He made some additions to the work of Naccari in the Physical Journal of Pavia, XVII.

Natter.—Natterer, an Austrian naturalist, who travelled in Brazil.

Author of various interesting observations on the animals of Germany.

Naturf.—Naturforscher.

"Der Naturforscher, or the Naturalist." The title of a German Journal on Natural History, of which twenty-seven numbers were published at Halle, from 1774 to 1793. It abounds in important observations and good figures.

Naum. — Nauman (J. A. and J. F.), father and son.

"Natural History of the Birds of Germany." An excellent work, the plates of which, though small, are perfect. The second edition, 8vo. Lips., 1820, et seq.—which we chiefly quote—is not yet terminated.

Nees d'Esenb. See **Gravenhorst.**

Nicols.—Nicolson, an Irish Dominican, missionary to St. Domingo.

"Essai sur l'Histoire Naturelle de St. Domingue," 8vo. with plates. Paris, 1776.

Nieremb.—Nieremberg (J. E.), a Jesuit, Professor at Madrid.

"Historia Naturalis maxime peregrina, libris XVI. distincta," folio, Antwerp, a compilation of but little value.

Nils.—Nilson (S. V.), Curator of the Lund Museum.

"Ornithologia Suecica," 2 vols. 8vo. Copenhagen, 1817, 1821.

Nitzch (C. L.), Professor at Halle.

Author of various Memoirs on the osteology of Birds and the Invertebrata, published among those of Halle, Bonn, &c.

"Spiropteræ Stramosæ Descr.," 4to. Halle, 1829.

"Materials for a History of the Infusoria, or a description of the Cercariæ and Bacillariæ," 8vo. in German. Halle, 1817.

Nosem.—Noseman (N.), died 1786.

In conjunction with the engraver, Christian Sepp, author of a "History of the Birds of the Netherlands" (in Dutch), folio, with remarkably beautiful plates. The last numbers are by Houttuyn. Amsterdam, 1770, et seq.

Ochsenh. — Ochsenheimer (Ferdinand).

His work, written in German, on the "Lepidoptera of Europe," is the best that has been published with respect to critical accuracy, and the descriptions of the species. The first volume appeared at Leipzic in 1806. The one he is about to publish will contain the Noctuæ.

Odier (Auguste).

"Mémoire sur la Composition Chimique des parties cornées des Insectes," inserted in the first volume of the "Mémoires de la Soc. d'Hist. Nat.," 4to. 1823.

Oken, a German naturalist of Fribourg in Brisgau, established at Jena.

"Philosophy of Nature," 3 vols. 8vo. Jena, 1809.

"A Treatise on Natural History," of which the Zoology forms the third part, in two vols. 8vo. with an Atlas. Jena, 1816.

"A Natural History for Schools," 1 vol. Jena, 1821.

"Esquisse de Système d'Anatomie, de Physiologie, et d'Histoire Naturelle," 8vo. Paris, 1821.

He is the principal editor of the Isis, a journal which abounds in important articles relative to natural history.

Olafsen (Eggert), or Erard **Olavius**, a naturalist of Iceland, born 1726, died 1768.

Jointly with Biorn **Polvelsen**, or **Pauli**, the first physician of that island, who died in 1778, author of a "Journey in Iceland," printed in 1772. I quote the French translation, 5 vols. 8vo. with an atlas. Paris, 1802.

Olivi (The Abbé Joseph).

"Zoologia Adriatica," 1 vol. 8vo. with plates. Bassano, 1792.

It contains excellent observations on the Mollusca and Crustacea.

Oliv.—Olivier (Antoine-Guillaume), member of the Académie des Sciences, Professor of Zoology to the Ecole Véterinaire of Alfort, &c., born at Draguignan 1756, died 1814.

"Entomologie, ou Histoire Naturelle des Insectes" (Coleoptera), 5 vols. folio, with coloured plates. Paris, 1789—1808.

Insects of the Encyclopédie Méthodique, from the fourth volume of the Natural History to the eighth inclusively.

"Voyage dans l'Empire Ottoman, l'Égypte et la Perse," 3 vols. 4to. with plates. Paris, 1807. It contains interesting species of several classes of animals.

Omalius de Halloy, governor of the province of Namur, and a learned geologist.

Oppel (Michael), a Bavarian naturalist, who died in 18—.

"Sur la Classification des Reptiles." The first Memoir is on the Ophidia, the second on the Batrachia, published in the Annales du Muséum.

"The Orders, Families and Genera of Reptiles" (in German), 4to. Munich, 1811.

I also quote his Memoir on the Tanypus, inserted in the Memoirs of the Academy of Munich, 1812.

In conjunction with Messrs. Tiedeman and Liboschitz, he commenced a work on Reptiles, with numerous plates, of which the Crocodiles only were published. Heidelberg, folio, 1817.

Osbeck (Peter), a pupil of Linnæus, and chaplain of a Swedish vessel that went to China in 1750.

His narrative was printed in the Swedish language in 8vo. Stockholm, 1757, and translated into German by G. Rostock, 8vo. 1765.

Otto (A. W.), a German naturalist, Professor at Breslau.

Author of several Memoirs among those of the Academy of Sc., of Nature, and other collections.

"Conspectus Animalium quorundam," &c. Breslau, 1821.

"De Stermaspide Thalassemoides et Siphostomate Diplochaito," 4to. Breslau, 1820.

Palis. de Beauv.—Palisot, Baron de Beauvois (A. M. F. J.), member of the Académie des Sciences, born 1755, died 1820.

"Insectes recuellis en Afrique et en Amérique," &c., folio, with coloured plates. Paris, 1805 et seq.

Pall.—Pallas (P. S.), one of the great Zoologists of modern times, born at Berlin 1741, died 1812. I quote his

Glir.

"Novæ Species Quadrupedum e Glirium Ordine," 4to. with thirty-nine coloured plates. Erlang, 1778.

Spic. or Spic. Zool.

"Spicilegia Zoologica," fourteen numbers, 4to. Berlin, 1767—1780.

Miscel.

"Miscellanea Zoologica," 1 No. 4to. Haga, 1766.

Voy.

"Voyage dans plusieurs provinces de l'Empire de Russie," French Tr., 8vo. with an atlas. Paris.

Nord. Beytr.

"Neue Nordische Beytræge," &c. (or New Materials from the North for Geography, &c.), 7 vols. 8vo. Petersburg and Leipzic, 1781—1796.

"Zoographia Russo-Adriatica," 3 vols. 4to. Some of the plates of this work having been mislaid, it has not yet been published, though the Academy of St. Petersburg have granted the use of the MSS. to certain naturalists.

Several of his Memoirs inserted among those of the Academy last mentioned.

Panz.—Panzer (G. W. F.), a physician of Nuremberg, born in 1755.

"Faunæ Insectorum Germanicæ initia, or Deutschlands Insecten," one hundred and nine numbers, 12mo. each consisting of twenty-four coloured plates. Nuremberg, 1796, et seq. One of the most useful entomological works we possess, on account of the accuracy of the figures.

"Entomologischer Versuch uber die Jurineschen Gattungen der Linneischen Hymenoptern," 1 vol. 12mo. Nuremberg, 1806.

"Index Entomologicus, pars prima, Eleutherata," 1 vol. 12mo. Norembergæ, 1813.

He has also published several other works on Insects, which I have not had occasion to quote.

Park.—Parkinson (James), an English naturalist.

"Outlines of Oryctology," 1 vol. 8vo. with plates.

"Organic Remains of a Former World," 3 vols. 4to. London. 1811.

Parra (Don Antonio), an American naturalist.

Author of a "Description of various portions of Natural History," and chiefly of marine productions, written in Spanish, 4to. Havanna, 1784.

In this work the author describes and figures many fishes and Crustacea.

Passer.—Passerini (Charles).

"Observations on the sound produced by the Sphinx Atropos," in Italian, from which M. Dufronches has given an extract.

Paykull (Gustavus), Counsellor to the King of Sweden, and member of the Academy of Stockholm.

"Fauna Suecica" (Insecta), 3 vols. 8vo. Upsal, 1800.

These three volumes refer exclusively to the Coleoptera; his descriptions are carefully and completely given.

He has also published good Monographs of the genera Carabus, Curculio and Staphylinus, but they are incorporated with the Fauna.

"Monographia Histeroideum," with plates of all the species, 1 vol. 8vo. Upsal, 1811. This Monograph is superior to the preceding ones, and is indispensably requisite for the study of these Insects.

He has published certain Memoirs on Birds.

Peck (William), Professor of Botany at the university of Harvard.

Author of a Memoir inserted in the fourth volume of the Agricultural Journal of Massachusetts, relative to a species of Rhynchænus, that attacks the Pine.

Penn. Pennt.—Pennant (Thomas), a Welchman, born in 1726, died in 1798. A laborious naturalist. The works we chiefly quote are his

"History of Quadrupeds," 2 vols. 4to.

"British Zoology," 1 vol. folio.

"British Zoology," 4to. and 8vo. 4 vols.

"Arctic Zoology," 2 vols. 4to.

"Indian Zoology," 1 vol. 4to.

Pernetty, a Benedictine who accompanied Bougainville to the Falkland Islands; he was afterwards librarian to Frederick II. of Prussia.

"Voyage aux Iles Malouines," 2 vols. 8vo. Paris, 1770. It contains some valuable details on Natural History, and useful figures.

Per.—Peron (François), born at Cerilly in 1775, died in 1810, a zealous traveller, prematurely snatched from the sciences, and one of those who have most contributed to enrich the Museum of Paris.

"He edited the first volume of the "Voyage de découverte aux Terres Australes en 1800—1804," 1 vol. 4to. with an atlas. Paris, 1807.

He was also the author of various Memoirs published in the Annales du Muséum.

Perrault, (Claude), a naturalist, architect of the Louvre and Observatory of Paris, born 1613, died 1688.

He published, from the dissections of Duverney, the "Mémoires pour servir à l'Histoire Naturelle des Animaux," which form the third volume of the Mém. de l'Acad. des Sciences, previous to 1699.

Petag.—Petagna, (V.), of Naples.

"Specimen Insectorum Ulterioris Calabriæ," 4to. with one plate. Francofurti, 1787.

"Elements of Entomology," 2 vols. 8vo.

Petersb. or **Petrop. Mem.**, or **Comment.**, or **Nov. Comment.**, or **Act.**, or **Nov. Act.**

Such are the various titles of the Memoirs of the Imperial Academy of Sciences of St. Petersburg.
The "Commentarii," 14 vols. 4to. from 1726 to 1746.
The "Novi Commentarii," 20 vols. from 1749 to 1775.
The "Acta," 7 vols. from 1777 to 1782.
The "Nova Acta," 15 vols. from 1783 to 1802.
The "Memoirs," from 1809.

Phelsum (Murck Van), a Dutch naturalist.

Quoted for his "Letter to C. Noseman on the Echini," 8vo. Rotterdam, 1774.

Phillip (Arthur), a German, and Governor of Botany Bay, in the English Service.

"The Voyage of Governor Phillip to Botany Bay," &c., with fifty-five coloured plates, London, 1789. An anonymous work, the part relative to natural history by Latham. There is a French translation of it without plates, in 1 vol. 8vo. Paris, 1791.

Phipps (C. J.), the celebrated English navigator, subsequently Lord Mulgrave; born 1746, died 1792.

"Voyage to the North Pole in 1773," translated into French by Desmeuniers, 1 vol. 4to. Paris, 1775.

Planc.—Plancus (Janus) or **J. Bianchi**, a physician of Rimini, born in 1693, died in 1775.

"De Conchis minus notis," 1 vol. 4to. with plates. Venice, 1739. The second edition greatly enlarged. Rome, 1760.

Pl. Col.—Planches Coloriees.

"Planches Coloriées des Oiseaux, par MM. Temminck and Laugier," 4to. and folio, a great work, which forms a sequel to the Planches Enluminées, &c. of Buffon.

Pl. Enl.—Planches Enluminees.

The coloured plates of Birds, published for Buffon's Natural History, by Dubenton, Jun., amounting to one thousand and eight, but arranged without order. It is beyond all doubt the richest collection of that class that has ever appeared. Most of the figures are good.

Plum. — Plumier (Charles), who travelled for a long time in the service of Louis the Fourteenth; he was a great naturalist in all the branches of the science, although several of his works have remained unpublished.

I have had occasion to quote his Observations on Fishes and Reptiles, part of which are at Paris and part at Berlin, all in MS., with numerous drawings; a portion of them has been published by Bloch and Lacépède.

Poli, a naturalist and anatomist at Naples, author of the magnificent work, entitled

"Testacea utriusque Siciliæ eorumque Historia et Anatome," 2 vols. folio. Parma, 1791 and 1795. A third volume has been lately published.

Prev.—Prevost (Benedict).

"Mémoire sur le Chirocéphale," published at the end of the Histoire des Monocles of Jurine. See **Jurine**.

Preys.—Preysler (J. D.)

"Werzeichniss Bochmischer Insecten," 1 vol. 4to. Prague, 1790.

Pr.Max.—Maximilian Prince, de Wied-Neuwied.

His "Voyage to Brazil," 2 vols. 4to. with an atlas, Franckf., 1820 and 1821, his "Natural History of Brazil," of which two vols. 8vo. were published at Weimar, 1826, and several numbers of coloured plates, in folio. These are among the number of those productions of modern times which are richest in novelties.

Prun.—Prunner (Leonard de).

"Lepidoptera Pedemontana," 1 vol. 8vo. Turin, 1798.

Q. and G. or **Quoy and Gaym.**, or **Gaim.—Quoy and Gaymard**, fellow travellers who have already made two great voyages.

They have published the "Zoologie du Voyage de l'Uranie," 1 vol. Paris, 1824, with one volume folio of plates. They are at present occupied with that of the "Voyage de l'Astrolabe," of which several numbers have already appeared.

Raffles (Sir Stamford), an English general and Governor of Sumatra, who has greatly contributed to our knowledge of the productions of that island.

I quote his paper on this subject in the thirteenth volume of the Linnæan Transactions.

Raf.—Rafinesque Schmaltz. (C. S.), naturalist, long a resident in Sicily, and at present established in the United States.

Author of numerous little works on new species, genera and systems.
"Caratteri di alcuni nuovi Generi et nuove Specie di Animali e Piante della Sicilia," 8vo. Palermo, 1810.
"Indice d'Ittiologia Siciliana," 8vo. Palermo, 1810.
"Principes Fondamentaux de Sémiologie." Palermo, 1814.
"Analyse de l'Univers, ou Tableau de la Nature," 8vo. Paris, 1815.
"Ichthyologia Ohiensis, or Natural History of the Fishes inhabiting the river Ohio," &c. 8vo. Lexington, Kentucky, 1820.

Ray (John), an English theologian, born 1628, died 1704; the first true methodiser of the animal kingdom, and the principal guide of Linnæus in that department of the natural sciences.

"Synopsis Methodica Animalium Quadrupedum et Serpentum," 8vo. London, 1683.
"Synopsis Methodica Avium et Piscium," 8vo. London, 1783.
"Historia Insectorum," 4to. London, 1710.

Randohr (C. A.), a German naturalist.

Author of a treatise "On the Digestive Organs of Insects," in the German language, 4to. Halle, 1811; and of "Materials for the History of certain German Monoculi," 4to. Ibid. 1805.

Rang (Sander), and officer of the Corps Royal of the French Navy, an able naturalist.

"Manuel de l'Histoire Naturelle des Mollusques et de leurs Coquilles," 12mo. Paris, 1829.
"Etablissement de la famille des Béroides," published in the fourth volume of the Mém. de la Soc. d'Hist. Naturelle.
"Histoire Naturelle des Aplysies," 4to. Paris, 1828.

Ranzani (The Abbé Camillo), Professor of Natural History at Bologna, &c.

"Elements of Zoology" (in Italian). Bol., 1819, et seq., of which thirteen volumes, 8vo. have already appeared, all relating to Quadrupeds and Birds.
"Memoirs on Natural History" (also in Italian), 4to. Bologna, 1820.

Rapp (William), Professor at Tubingen.

"On the Polypi in general and the Actiniæ in particular," 4to. Weimar, 1829.

Reaum.—Reaumur (R. A. Ferchault de), member of the Académie des Sciences, born 1683, died 1757; his labours were directed to all the sciences. We chiefly quote his

"Mémoires pour servir à l'Histoire des Insectes," 6 vols. 4to. with plates. Paris, 1734—1742. The seventh volume remains in MS.; the others were not commenced. An admirable work.

Red.—Redi (F.), a celebrated literary character and physician of Arezzo, born 1626, died 1698.

"Experimenta circa Generationem Insectorum," 3 vols. 12mo. with plates. Amstelodami, 1671, 1686, 1712.

Reich.—Reichenbach (H. T. L.)

"Monographia Pselaphorum," 1 vol. 8vo. with plates. Lipsiæ, 1816.

Reinw.—Reinwardt, a German naturalist, Professor at Leyden, who travelled through the Archipelago of India, where he made as plendid collection.

Renard (Louis), editor of a collection of drawings of Fishes and other marine animals executed in

India by native painters, which, under a barbarous appearance, exhibit interestiug and true species. One vol. folio. Amsterdam, 1754.

Renieri, an Italian naturalist, Professor at Padua.

Rets.—Retsius, a Swedish naturalist, Professor at Lund.

Author of a greatly enlarged edition of the "Fanna Suecica" of Linnæus, of various theses, &c.

Richards.—Richardson(John) surgeon to the first expedition under captain Franklin.

Author of the Zoological appendix attached to the account of that voyage. London, 1823, in 4to.

Riss.—Risso (A.), a naturalist of Nice, and a zealous observer.

"Ichthyologie de Nice," &c., 1 vol. 8vo. Paris, 1810, a work of extreme value on account of the number of new species which it contains.

"Histoire Naturelle des Crustacés des environs de Nice," 1 vol. 8vo. with plates. Paris, 1816.

These works have been reproduced in his "Histoire Naturelle de l'Europe Merid.," 5 vols. 8vo. Paris, 1826.

He has also published a description of some new Crustacea in the Journal de Physique.

Robin.—Robineau Desvoidy, physician at St. Sauveur, department of the Yonne.

"Recherches sur l'Organization Vertebrales des Crustacés, des Arachnides, et des Insectes," 1 vol. 8vo. Paris, 1828.

"Essai sur la tribu des Culicides," inserted in the second volume of the Mémoires de la Société d'Histoire Naturelle.

A great work on the Muscidæ, which he calls "Myodaires," published in the Mém. des Savants Etrangéres, &c.

"Observations on the Olfactory Organ of the Crustacea, and on the use of the Halteres of the Diptera."

Rochefort (N.), a protestant minister of Holland.

"Natural and Moral History of the Antilles and America." The first edition is anonymous, and published at Rotterdam, 1658. The part relative to Natural History is copied from the first edition of Dutertre, 1654

Rœm.—Rœmer (J. C.)

"Genera Insectorum Linnæi et Fabricii, Iconibus illustrata," 1 vol. 4to. Vitoduri Helvetiorum, 1789.

His work is merely an edition of that of Sulzer on the same subject; with some new plates.

Rœs.—Rœsel de Rosenhof (A. J.), a painter of Nuremberg, born 1705, died 1759, one the most ingenious observers, and an able painter of subjects of Natural History.

"Historia Naturalis Ranarum nostratium," 1 vol. folio. Nuremb., 1758.

"Insecten-Belustigungen," with excellent coloured plates, 4 vols. 4to. Nuremb., 1746, et seq. See Kleemann.

Rog. — Roger, a naturalist of Bourdeaux.

"Instructions à l'usage des personnes qui voudraient s'occuper a recueillir des Insectes pour les Cabinets d'Histoire Naturelle," 8vo. Bourdeaux.

Roiss. — Roissy (Félix de), a naturalist of Paris.

He completed, by the 5th and 6th vols. 8vo. the "Histoire des Mollusques," commenced by Denys de Montfort for Sonnini's Buffon.

Rondel. — Rondelet (Guillaume), Professor at Montpelier, born 1507, died 1566.

"Libri de Piscibus," 1 vol. folio. Lyons, 1554. A work still useful for its numerous wood-cuts.

Ross.—Rossi (Pietro), an Italian naturalist, Professor at Pisa, died in 18—.

"Fauna Etrusca, sistens Insecta quæ in provinciis Florentina et Pisana præsertim collegit Petrus Rossius," 2 vols. 4to. with coloured plates. Liburni, 1790.

"Mantissa Insectorum exhibens Species nuper in Etruria collectas, a Petro Rossio," &c. with coloured plates, 2 vols. 4to. Pisis, 1792—1794.

Roux (Polydore), Curator of the Museum of Marseilles.

"Ornithologie Provençale," 4to. with beautiful lithographic plates.
"Crustacés de la Mediterranée et de son littoral," 4to. with plates, the three first numbers. Marseilles, 1827—1828.

Roxburgh, an English physician at Bengal.

I quote his paper on the Dolphin of the Ganges.

Rudolphi (C. A.), a German naturalist and anatomist, Professor at Gripswald and now at Berlin. Chiefly quoted for his classical work on the Intestinal Worms.

"Entozoa seu Vermium Intestinalium Historia Naturalis," 2 vols. 8vo. Amsterdam, 1808.

Rumph (G. E.), a German merchant, born at Hanau in 1637, Intendant at Amboyna in the Dutch service, died in 1706.

"The Cabinet of Amboyna" (in Dutch), 1 vol. folio. Amsterdam, 1705.
"Theasurus Imaginum," &c. Haga, 1739, 1 vol. folio, with the same plates, but a more abridged text.

Reppel (Edward), a naturalist of Franckfort.

Author of "Travels in Nubia," with excellent lithographic and coloured plates, representing new species of various classes, of which several numbers are already published in 4to. Franckf. 1826.

Russel (P.), formerly a surgeon at Bengal.

"Serpents of the coast of Coromandel," 1 vol. folio, with a supplement and excellent plates. London, 17—.
"Description and figures of two hundred Fishes from the Coast of Coromandel," 2 vols. folio. London, 1803. Two capital works.

Ruysch (Henry), son of the celebrated anatomist; he died before his father. Under the title of

"Theatrum Animalium," 2 vols. folio, Amsterd., 1718, he gave an edition of Johnstone, to which he added a copy of the same plates of fishes employed by Renard and Valentin.

Sabine, an English naturalist.

Author of the Appendix to Captain Parry's first voyage, and of various papers in the Transactions of the Linnæan Society.

Sage (B. G.), Chemist of the Academy of Sciences, died 1824.

"Mémoire sur les Belemnites," published in the Journal de Physique.

Sahl.—Sahlberg (C. R.).

"Dissertatio Entomologica Insecta Fennica enumerans." Præs. C. R. Sahlberg, 8vo. Aboæ, 1717, 1823.
"Periculi Entomographici," 1 vol. 8vo. with plates. Aboæ, 1823.

Salerne, a physician of Orleans.

Author of a translation of the "Synopsis Avium" of Ray, under the title of "l'Histoire Naturelle éclaircie dans une de ses principales parties, l'Ornithologie," &c. 4to. Paris, 1767.
The drawings are by the same hand that furnished those of Brisson and of the Planches Enluminées, and are frequently taken from the same specimens.

Salt, English consul in Egypt.

"Travels in Abyssinia." They contain some observations relative to natural history.

Salv.—Salviani (Ippolito), of Citta di Castello, a physician at Rome, born 1513, died 1572.

"Aquatilium Animalium Historiæ," 1 vol. folio, with numerous and excellent copperplate engravings of Fishes. Romæ, 1554.

Sav., or Savign.—Savigny (J. C.), member of the Académie des Sciences.

"Histoire Naturelle et Mythologique de l'Ibis," 1 vol. 8vo. Paris, 1805.
"Mémoires sur les Oiseaux de l'Egypte," in the great work on Egypt.
"Mémoires sur les Animaux sans Vertèbres," part first, No. 1, 8vo. Paris, 1816.
"Système des Annelides," published in the great work on Egypt, as well as his "Tableau Systématique des Ascidies."

Savi (Paulo), a young naturalist of Tuscany and Professor at Pisa.

Author of various good observations on the animals of that country, published in the Giornale dei Letterati. He has given in Italian two Memoirs on a species of Iulus, which have lately been reproduced with others of the same savant, in a work entitled "Memorie Scientifiche di Paolo Savi, decade prima con sette tavole," 1 vol. 8vo. Pisa, 1828.

Say (Thomas), a French naturalist, established in the United States.

Author of various papers in the Journal of the Academy of Natural Sciences of Philadelphia, and the Annals of the New York Lyceum.

Schæff.—Schæffer (J. C.), a clergyman at Ratisbon, born in 1718, died in 1799.

"Elementa Entomologica," with coloured plates, 1 vol. 4to. Ratisbonne, 1769.

"Icones Insectorum circa Ratisbon Indigenorum," 3 vols. 4to. Ratisbon, 1769.

"Apus pisciformis Insecti Aquatici Species noviter detecta," 4to. with plates. Ratisbonne, 1757. This Crustaceous animal is the Cancer Stagnalis of Linnæus. See Branchipus.

"Abhandlungen von Insecten." Regensburg, 1764—1779.

Schellenb. — Schellenberg, (J. R.), painter and engraver at Zurich.

"Cimicum in Helvetiæ Aquis et Terris degens Genus," with plates, 1 vol. 8vo. Turici, 1800.

"Genres des Mouches Diptéres," in French and German, with coloured plates. Zurich, 1803. The text is by two anonymous writers.

Sch., or Scheuchz.—Scheuchzer (J. J.), a physician of Zurich.

"Physique Sacrée," 4 vols. folio. Amsterdam, 1732. It contains numerous figures of Serpents.

Schintz, Secretary of the Society of Natural History at Zurich, the translator into German of the Régne Animal.

Author of the "History of the Eggs and Nests of Birds."

Schloss.—Schlosser, a physician at Amsterdam.

Author of certain "Memoirs on Fishes," jointly with Boddaert, published in the Philosophical Transactions.

Schn.—Schneider (J. G.), the celebrated hellenist and naturalist, Professor at Franckfort-on-the-Oder, now at Breslau.

"Amphibiorum Physiologiæ Specim." 4to. Fascic. I et II. Zullichow, 1797.

"Historiæ Amphibiorum Naturalis et Litterariæ," 8vo. Fascic. I et II. Jena, 1799, 1801.

"The Natural History of Tortoises in general," (in German), 1 vol. 8vo. Leipzic, 1783.

I frequently quote under his name his edition of the "Systema Ichthyologiæ" of Bloch, 8vo. with one hundred and ten plates. Berlin, 1801.

Schœpf (J. D.), a physician at Anspach, born 1752.

"Historia Testudinum Iconibus Illustrata," 4to. with coloured plates. Erlang, 1792, et seq.

Schonefeld (E. de), a physician of Hamburg.

"Ichthyologia, &c. ducatum Slesvigi et Holsatiæ," 4to. Hamburg, 1824.

Schon.—or Schœnh.—Schœnherr (C. J.), a Swede.

"Synonymia Insectorum," 2 vols. 8vo. with plates. Stockholm, 1806—1808.

"Curculionidum Dispositio Methodica," 1 vol. 8vo. Leipzic, 1826.

Schrank (F. de P.), a Bavarian naturalist, Professor at Ingolstadt, born in 1747.

"Enumeratio Insectorum Austriæ Indigenorum," 1 vol. 8vo. with plates. Augustæ Vindelicorum, 1781.

"Fauna Boica," 6 vols. 8vo. Nuremberg and Ingolstadt, 1798, et seq.

Schreb.—Schreber (J. C. de), Professor at Erlang, born in 1739.

We chiefly quote his "History of the Mammalia" (in German), with coloured plates, 4to. Erlang, 1775, et seq.

There are also some French copies of the first parts. The greater part of the plates are copied from Buffon, and coloured from the descriptions, although some of them are original and good.

Schreib.—Schreibers (Charles de), Director of the Imperial Museum of Vienna.

The description of various unpublished or but little known Coleoptera, with plates, inserted in the sixth volume of the Transactions of the Linnæan Society.

A Memoir on the Proteus in the Philosophical Transactions.

Schrœt.—Schrœter, (J. S.), Lutheran superintendent at Buttstedt in the Duchy of Weimar, born in 1735. Author of numerous works on Conchyliology; we quote his

"History of Fresh-water Shells" (in German), 4to. Halle, 1779.

Schweig.—Schweigger(A. F.), a Prussian naturalist who was assassinated by his guide during a journey in the interior of Sicily.

"Prodromus Monographiæ Cheloniorum," in which he particularly describes the new species in the Museum of Paris. It is published in the "Archives of Kœnigsberg," for 1812. He has also given us

"Observations during his Travels," in which he treats of the Corallines and yellow Amber, 4to. Berlin, 1819.

"A Manual of the Invertebrate and Inarticulated Animals," 1 vol. 8vo. Leipzic, 1820.

Scilla (Agostino), a Sicilian painter.

"La Vana Speculatione disingannata dal Senso," 1 vol. 4to. Naples, 1670.

The first exact comparison of fossils with analogous recent bodies that was instituted. There is a Latin translation of this work in 4to. Rome, 1752.

Scop.—Scopoli (J. A.). Professor of Botany and Chemistry at Pavia, born in 1723, died in 1788.

"Entomologia Carniolica," 1 vol. 8vo. Vindebonæ, 1763.

"Deliciæ Floræ et Faunæ Insubricæ," with plates, 4 vols. folio. Ticini, 1786—1788.

"Introductio ad Historiam Naturalem," 1 vol. 8vo. Pragæ, 1777.

"Anni Historici-Naturales V." Lipsæ, 1768—1772, united in 1 vol. 8vo.

He also published some plates which are but little known, forming a sequel to his "Entomologia Carniolica."

Scoresby, an English navigator, who re-discovered Oriental Greenland, and author of

"Arctic Regions," &c. 1 vol. London, 1816, which contains many valuable observations on the Cetacea.

Seb.—Seba (Albert), a druggist of Amsterdam, born in 1665, died in 1736. Celebrated for his

"Locupletissimi Rerum Naturalium Thesauri Accurata Descriptio," 4 vols. folio. Amsterdam, 1734, 1765.

A work that I have frequently quoted, because it is enriched with numerous and excellent plates; the text, however, is of no authority whatever, being written without accuracy or judgment.

Selby (P. J.)

Author of "Illustrations of British Ornithology," 8vo. Edinburgh, 1825, with a very large atlas, the most magnificent work on Ornithology that exists.

He also published various papers in the Zoological Journal, &c.

Senguerd.—Senguerdius(Wolferd.)

"Tractatus Physicus de Tarantula," 1 vol. 12mo. Lugduni Batavorum, 1668.

Serres (Marcel de), Professor of Mineralogy to the Faculté des Sciences of Montpellier. Author of

"Mémoire sur les yeux composés, et les yeux lisses des Insectes," with plates, 1 vol. 8vo. Montpellier, 1813.

Several Memoirs on the Anatomy of Insects, published in the Annales du Muséum.

Serv.—Serville, one of the writers for the Entomological Department of the Faune Française, and of the Encyclopédie Méthodique.

He has also published the last number

of the work of the late Palisot de Beauvois on the Insects collected by him in Africa and America; as well as extracts from various works on Insects, in the "Bulletin Universel" of Baron Férussac.

Shaw (Thomas), a theologian of Oxford, who travelled in Africa and the Levant.

His work, published in English at Oxford, in folio, 1738, has been translated into French under the title of "Voyage dans plusieurs parties de la Barbarie et du Levant," 2 vols. 4to. La Haye, 1743.

Sh. or Shaw.—Shaw (George), Adjunct Librarian of the British Museum, a laborious compiler and describer, died in 1815.

"The Naturalist's Miscellany," 8vo. London, 1789, et seq.; a numerous collection of coloured plates, mostly copies, with some that are original.

"General Zoology," London, 1800, et seq., several volumes, 8vo. with plates, most of them copies.

"Zoology of New Holland," a few numbers, 8vo. London, 1794 et seq. The work remains unfinished.

Sloane (Hans), a former President of the Royal Society, born in 1660, died in 1753.

"Voyage to the Islands of Madeira, Barbadoes, Nevis, St. Christopher and Jamaica," with 274 indifferent or bad plates, 2 vols. folio. London, 1707, 1727.

Smeath.—Smeathman (Hen.)

His History of the Termites, published in the seventy-first volume of the Philosophical Transactions, has been translated into French by Dr. Rigaud of Montpellier, and inserted in the French translation of Sparrman's Voyage.

Smith (Hamilton), an officer in the English service and a learned naturalist.

Author of a great portion of the additions to the English translation of the Règne Animal, and particularly of the Synopsis Mammalium, which terminates the third volume.

Soc. Nat. Berl., or Berl. Mem., or Nat. of Berl., or Berl. Nat.

The Memoirs of this Society have appeared successively under four different titles, in German.

1. "Beschæftigungen," (Occupations), 4 vols. 8vo. 1775—1779.
2. "Schriften," (Writings), 11 vols. 8vo. 1780—1794, the five last of which are also styled "Beobachtungen and Entdeckungen," (Observations and Discoveries).
3. "Neue Schriften," (New Writings), 4to. 1795—17 .
4. "Magazin," &c. (The Magazine of New Discoveries in Natural History), quarterly from 1807.

Sold. — Soldani (Ambrosio), General of the Camaldolites, subsequently Professor at Siena, author of various works on Microscopic Testacea, both fossil and recent.

"Saggio Oritografico Ovvero Osservationi sopra le Terre Nautilitiche," &c. 1 vol. 4to. Siena, 1780.

"Testaceographia ac Zoophytographia Parva et Microscopica," 3 vols. folio. Siena, 1789—1798.

Sonner. — Sonnerat, born at Lyons, died in Paris, 1814, an indefatigable collector.

"Voyage à la Nouvelle-Guinée," with one hundred and twenty plates, 4to. Paris, 1776. His first voyage.

"Voyage aux Indes Orientales et à la Chine," from 1774 to 1781, 2 vols. 4to. with one hundred and forty plates. Paris, 1782. His second voyage.

Sonnini de Manoncourt (C. S.) engineer, born at Lorraine, died in Wallachia in 1814. I quote his

"Voyage dans la Haute et Basse Egypte," with an atlas of forty plates, 3 vols. 8vo. Paris, 1799.

And sometimes his edition of Buffon, 8vo. Paris, Dufart, 1798.

Sowerb.—Sowerby (Jas.), and Sowerby (G. B.), his son, English naturalists and artists.

"The Genera of recent and fossil Shells," thirty numbers, 8vo.

"Fossil Conchology,"

Various papers in the Zoological Journal.

Spall.—Spallanzani (Lazzaro), the celebrated observer, Professor at Reggio, then at Modena, and finally at Pavia, born in 1729, died in 1799. Of his numerous works we have only had occasion to quote the

"Opuscoli di Fisica Animale e Vegetabile," 1776.

They have been translated into French by Sennebier, 3 vols. 8vo. Geneva, 1787.

SPARM.—SPARMANN (Andrew), born in 1748, a pupil of Linnæus. He visited the Cape of Good Hope and China, and was subsequently a Professor at Upsal.

VOY.

"Voyage au Cap de Bonne-Espérance," a French translation, 3 vols. 8vo. Paris, 1787.

MUS. CARLS.

"Museum Carlsonianum," four small folio numbers. Stock., 1786, et seq. It contains figures of Birds, of which certain varieties are converted into species.

SPENCE (William), an English naturalist.

"A Monograph of the Cholevæ," that are found in England, published in the Transactions of the Linnæan Society.

SPENGL.—SPENGLER (L.), Curator of the Cabinet of the King of Denmark, born in 1720.

Quoted for certain Memoirs in the Naturforscher, &c.

SPIN.—SPINOLA (Maximilian), a Genoese noble, and a learned naturalist.

"Insectorum Liguriæ Species Novæ aut Rariores," with plates, 2 vols. 4to. Genuæ, 1806—1808.

"Mémoire sur les Poissons de Ligurie;" one on the "Cératine Albilabre;" and the "Essai d'une Nouvelle Classification Générale des Diplolépaires," in the Annales du Muséum.

SPIX (John), a naturalist of Bavaria and member of the Academy of Munich.

Quoted for his Memoirs in the Annales du Muséum, and for his great works on the Zoology of Brazil, where he travelled with M. de Martius by order of the King of Bavaria.

"The Natural Hist. of New Species of Monkeys and Bats" (in Lat. and Fr.), 1 vol. folio. Munich, 1823.

"New Species of Birds" (in Latin), with one hundred and nine coloured plates, 1 vol. 4to. Munich, 1824.

"New Species of Tortoises and Frogs" (in Latin), 4to. Munich, 1824.

"Nat. Hist. of New Species of Serpents," from the notes of the traveller, by John Wagler (Latin and French), 4to. Munich, 1824.

"Selected Genera and Species of Fishes," described by L. Agassiz, 4to. Munich, 1829.

SLAB.—SLABBER (M.), a Dutch naturalist.

"Natural Amusements, containing Microscopical Observations," &c. (in Dutch), 1 vol. 4to. Haarlem, 1778.

He is also the author of certain Memoirs, published among those of the Academy of Haarlem.

STEV.—STEVEN (C.) Director of the Imperial Botanical Garden of Odessa.

"Description of certain Insects of Caucasus and of Southern Russia," a Memorial in 4to. printed among those of the Imperial Society of Naturalists of Moscow, Vol. II.

STOCK. MEM.

"Memoirs of the Academy of Sciences of Sweden," of which 1 vol. 8vo. (in the Swedish language) has annually appeared since the year 1739. The first forty reach to 1779. Since 1780 they have been published under the title of the "New Memoirs," &c.

STOLL.—STOLL (Casper), a Dutch physician.

Supplement to the work entitled "Les Papillons Exotiques des trois parties du Monde" (in Dutch and French), 1 vol. 4to. Amsterdam, 1790, et seq.

"Représentation exactement coloriée d'après Nature, des Spectres, des Mantes, des Saterelles," &c. (in Dutch and French), 8 Nos. 4to. Amsterdam, 1780, et seq.

"Représentation exactement coloriée d'après Nature des Cigales et des Punaises" (in Dutch and French), 10 Nos. 4to. Amsterdam, 1780, et seq.

STORR (T. C. C.), Professor at Tubingen.

His thesis entitled "Prodromus Methodi Mammalium," Tub., 1780, and republished in the "Delectus Opusculorum ad Sc. Nat. Spect. de Ludwig," 1 vol. 8vo. Leipzic, 1790, has been of great use to us.

Straus.—Straus Durckheim (H.)

"Considérations Générales sur l'Anatomie Comparée des Animaux Articulés, auxquelles on a joint l'Anatomie Descriptive du Hanneton," with plates, 1 vol. 4to. Paris, 1828.

The only work that can be compared to that of Lyonnet already mentioned.

He has read to the Acad. des Sciences, a "Mémoire sur le Système tégumentaire et musculaire de l'Araignée aviculaire," Mygale of Le Blond, Lat.

Stroem (John), a pastor in Norway, born in 1726.

Author of several Memoirs inserted among those of Drontheim, Copenhagen, &c. and of a description of the district of Sondmer.

Sturm (J.), a German naturalist and painter.

"Deutschland Fauna," with excellent plates, 2 vols. 8vo. Nuremberg, 1807.

Sulz.—Sulzer (J. H.)

"Die Kennzeichen der Insecten," with plates, 1 vol. 4to. Zurich, 1761.

Surrir.—Surriray, a physician at Havre.

"Observations sur le fœtus d'une espèce de Calige," in the third volume of the Annales Génerales des Sciences Physiques.

Swains.—Swainson, an English naturalist.

Author of various papers on Birds, published in the Linnæan Transactions and in the Zoological Journal; also of

"Zoological Illustrations," a work which forms a sequel to the Zoological Miscellany of Leach, and to the Naturalist's Miscellany of Shaw.

In conjunction with Dr. Horsefield he has published a Memoir on the Birds of New Holland, in the Linnæan Transactions.

Swammerdam, (John), a Dutch physician, born at Amsterdam in 1637, died in 1680.

"Biblia Naturæ," 1 vol. folio (Latin and Dutch). Leyden, 1737, 1738. The principal writer on the Anatomy of Insects.

Swed.—Sweder (N. S.), a Swedish naturalist.

Author of a Memoir published among those of Stockholm, 1784.

Temm., and sometimes **T.—Temminck** (C. J.), formerly Director of the Society of Sciences of Haarlem, and proprietor of a valuable zoological collection, and now Director of the Royal Museum of Leyden.

"Histoire Naturelle Générale des Pigeons et des Gallinacés," 3 vols. 8vo. Amsterdam and Paris, 1813, 1815.

The part containing the Pigeons has also been published in folio, with splendid coloured plates, by Madame Knip.

"Manuel d'Ornithologie ou Tableau Systématique des Oiseaux qui se trouvent en Europe," 1 vol. 8vo. Amsterdam and Paris, 1815.

"Monographies de Mammalogie," 4to. Paris, 1827.

"Planches Coloriées des Oiseaux," 4to. and folio, forming a sequel to the Planches Enluminées of Buffon. This work was published by Temminck jointly with M. Meiffren de Laugier, Baron de Chartrouse, &c. &c.

Thien., or **Thienem.—Thieneman**, Professor and Curator of the Museum of Dresden.

Author of Observations (in German) on the Animals of the North, and chiefly on the Phocæ, 8vo. with an atlas in 4to.

Thier. —Thiery de Menonville (N. J.), a French physician who visited Mexico for the purpose of carrying off the Cochineal.

"Traité de la culture du Nopal et de l'Education de la Cochinelle," 2 vols. 8vo. with plates. Paris, 1787.

Thomas (P.), a physician of Montpellier.

"Mémoires pour servir à l'Histoire Naturelle des Sang-sues," pamphlet. 8vo. Paris, 1806.

Thompson (John W.), a surgeon of the English army.

"A Memoir on the Pentacrinus Europæus," 4to. Cork, 1827.

Thomps.—Thompson (William), an English physician established at Naples.

Author of a Memoir on a Hippurites which he calls Cornucopia.

Thunb.—Thunberg (C. P.), a Pupil of Linnæus, who visited the Cape of Good Hope and Japan, Professor at Upsal, born in 1743.

Quoted for various Memoirs published among those of the Academy of Stockholm.

Tiedeman (Frederick), Professor at Heidelberg.

"Anatomy of the Holothuria, Asterias, and Echinus," folio, Landshut, 1805: one of our most splendid Monographs of invertebrated animals.

Tiles.—Tilesius (W. G.), a German naturalist who sailed round the world.

Author of several Memoirs presented to the Academy of St. Petersburg, of observations on various new animals in the Voyage of Krusensterm, and previously of an "Annual of Natural History," in the German, 12mo. Leipzic, 1802.

Trans. Lin. See **Linn. Trans.**

Treits.—Treitschke (Frederick), a German naturalist.

The continuer of Ochsenheimer's work on the Lepidoptera of Europe. The last volume (1829) contains the Pyralides.

Trmbl.—Trembley (Abraham), a native of Geneva, born in 1710, and died in 1784; immortalized by his discovery of the reproductive power of the Polypus.

"Mémoires pour servir à l'Histoire des Polypes d'eau douce à bras en forme de cornes," with fifteen plates, 4to. Leyden, 1774.

Treutl.—Treutler (F. A.), a German physician, author of a thesis entitled

"Observationes Pathologico-anatomicæ Auctarium ad Helminthologiam Humani Corporis Continentes," 4to. Leipzic, 1793.

Trevir.—Treviranus (G. R.), Professor at Bremen.

"On the Internal Organization of the Arachnides" (in German), with plates, 4to. Nuremberg, 1812.

Tuckey (J. K.), a Captain of the British Navy.

"Relation d'une Expédition pour reconnaître le Zaire," the French translation, with an atlas in 4to. 2 vols. 8vo. Paris, 1818.

Vahl (Martin), a celebrated Danish botanist.

Author of certain Memoirs on Zoology, published among those of the Society of Natural History of Copenhagen.

Vaill., or **Le Vaill.—Levaillant** (François), a celebrated traveller and collector, born at Surinam. His father was a Frenchman.

Voy. I.
"Voyage dans l'intérieur de l'Afrique par le Cap de Bonne-Espérance," 2 vols. 8vo. Paris, 1790.
Voy. II.
"Seconde Voyage dans l'intérieur de l'Afrique," &c., 1 vol. 8vo. Paris, 1795.
Afr.
"Histoire Naturelle des Oiseaux d'Afrique," 5 vols. 4to. Paris, 1799, et seq.
Perr.
"Histoire Naturelle des Perroquets," 2 vols. 4to. and folio. Paris, 1801.
Ois de Par.
"Histoire Naturelle des Oiseaux de Paradis et des Rolliers, suivie de celle des Toucans et des Barbas," 2 vols. folio. Paris, 1806.
"Histoire Naturelle des Promerops et des Guépiers," folio. Paris, 1807.

Val.—Valenciennes (A.) Adjunct Naturalist to the Museum of Paris, and my fellow labourer in the great work on Fishes.

Author of various Memoirs published among those of the Museum, of the Annales des Sciences Naturelles, and of the Zoological Observations of M. de Humboldt.

Valentyn (F.), a pastor at Amboyna.

"The East Indies, Ancient and Modern" (in Dutch), 5 vols. folio. Dordrecht and Amsterdam, 1724—1726.

The third volume contains numerous observations on the Natural History of Amboyna. The plates of the Fishes are identical with those of Renard.

VALL. — VALLOT, Professor at Dijon.

Has presented to the Académie des Sciences a Memoir on certain species of Cecidomyiæ, and has also published in the thirteenth volume of the Annales des Sc. Nat. some observations on the habits of the Anthribus Marmoratus, but which were made in Sweden by Dalman.

VANDELLI, an Italian naturalist, Director of the Museum at Lisbon.

Author of certain Memoirs on the Fishes of the river Amazon, published among those of the Academy of Lisbon.

VANDER LIN. — VANDER LINDEN, (P. L.), a physician and Professor of Natural History at Brussels.

Has published, in two Memoirs, 4to. a description of the Libellulæ of the territory of Bologna, and also in 1 vol. 8vo. that of all the species of the same family peculiar to Europe.

Also observations on European Hymenoptera of the family of the Fossores.

The first number of a work entitled "Essai sur les Insectes de Java et des Isles Voisines;" a notice of the impression of an Insect enclosed in a piece of schistous limestone from Solenhofen in Bavaria. These three last Memoirs are published in the General Annals of the Physical Sciences. Brussels, 1819, et seq.

VAUCHER (J. P. the Reverend), Professor at Geneva.

"Histoire des Conferves d'eau douce," 1 vol. 4to. Geneva, 1803.

Author of some observations on Zoophytes, published in the Bulletin des Sciences.

VIEILL. — VIRELOT (L. P.), a naturalist of Paris, died 1828.

"Histoire Naturelle des plus beaux Oiseaux chanteurs de la zone torride," 1 vol. folio. Paris, 1805.

"Histoire Naturelle des Oiseaux de l'Amérique Septentrionale," of which but 2 vols. folio have appeared. Paris, 1807.

He also continued the "Oiseaux Dorées" of Audibert, and has given us an "Analyse d'une nouvelle Ornithologie Elémentaire," pamphlet, 8vo. Paris, 1816.

"Galérie des Oiseaux," which is quoted as Vieill. Gal. He assisted in publishing the edition of Buffon's Birds, printed by Dufart, and the "Nouveau Dictionnaire d'Histoire Naturelle," by Deterville.

VIGORS, an English naturalist, and principal editor of the Zoological Journal.

Author of various papers in the Linnæan Transactions," &c.

VILL.—VILLERS (Charles de), a naturalist of Lyons.

"C. Linnæi Entomologia," 4 vols. 8vo. with tolerably good plates. Lugduni, 1789.

A useful compilation at the time when it was published, and to which the author has added a description of various Insects peculiar to the southern departments of France.

VILL.—VILLIERS (Adrian P. de)

Has published in the Annales de la Société Linnéenne de Paris, Nov. 1826, a description of three undescribed or but little known Lepidoptera of the south of France, with a plate in which they are figured. He there also rectifies the description previously given of the "Bombyx Milhauseri."

VIQ D'AZ.—VIR D'AZYR (Felix), born at Valogne in 1748, died at Paris in 1794; member of the Acad. des Sciences, and perpetual Secretary to the Société Royale de Medecine. I quote his

"Système Anatomique," which forms a portion of the Encyclopédie Méthodique, and of which only the second volume appeared, containing the Quadrumana and the Rodentia, 1 vol. 4to. Paris, 1795.

VIREY (J. J.), a physician, and one of the editors of the "Journal de Pharmacie et des Sciences accessoires," in which he has published his

"Histoire Naturelle des Végétaux et des Insectes qui les produisent," as well as "Recherches sur l'Insecte de la Gomme-laque."

Viv.—Viviani (Domenico), Professor of Botany and Natural History at Genoa.

"Phosphorescentia maris quatuordecim lucescentium Animalculorum, Novis Speciebus illustrata," 1 vol. 4to. Genuæ, 1805.

Vosm.—Vosmaer (Arnold), a Dutch naturalist who died in 1799; he was Curator of the Museum and Menagerie of the Stadtholder.

Author of numerous Monographs (in Dutch and French) of various animals, with coloured plates, from 1767.

Voy. de Duper.

The Zoological part of the "Voyage de la Coquille," under M. Duperrey. This portion of the work is by Messrs. Lesson and Garnot.

Voy. de Freycin., or **Zool. de Freycin.**

The Zoological portion of the "Voyage de l'Uranie," under M. de Freycinet. It is by Messrs. Quoy and Gaimard.

Wagler (John), a German naturalist, author of Ornithological Fragments, entitled

"Systema Avium," editor of the History of Serpents in the Brazilian Zoology of Spix and Martius, and author of Memoirs on Fishes in the Isis.

Walb.—Walbaum (J. J.), a physician of Lubeck, born 1724,

Besides his edition of "Artedi," has given us (in German) a "Chelonographia," or Description of certain Tortoises, 1 vol. 4to. Lubeck and Leipzic, 1782.

Also some Memoirs inserted amongst those of the Naturalists of Berlin.

Walch (J. E. E.), Professor at Jena, born in 1725, and died in 1778.

Author of the text of Knorr's "Monuments," &c. See Knorr.

Walck.—Walckenaer (C. A.), member of the Académie des Inscriptions et Belles-Lettres.

"Faune Parisienne," 2 vols. 8vo. Paris, 1802.

"Tableau des Araneides," in numbers, like those of Panzer on the Insects of Germany. But five have appeared.

"Araneides de France," a work which forms part of that entitled "La Faune Française," published by MM. de Blainville, Desmarest, Vieillot, &c.

"Mémoires pour servir à l'Histoire Naturelle des Abeilles Solitaires," 1 vol. 8vo. Paris, 1817.

Web.—Weber (Frederick), a German naturalist, Professor at Kiel.

"Observationes Entomologicæ," 1 vol. 8vo. Kiel, 1801.

White, Bot. B., or **White Voy.—White** (John), a surgeon in the English service at Botany-Bay.

"Journal of a Voyage to New South Wales," with sixty-five plates, 1 vol. 4to. London, 1790. The Zoological part of this work, which is enriched with splendid drawings, appears to have been from the pen of John Hunter, the celebrated anatomist. There is a French edition, 1 vol. 8vo. Paris, 1795, in which useless notes are added to the original work, and the natural history and plates are suppressed.

Wiedemann, C. R. G.

Diptera exotica, 1 vol. 8vo.
Analecta entomologica, 1824, 4to.

Willoughby de Eresby (F.), born in 1635, and died in 1672, an English gentleman and a zealous naturalist.

"Ornithologiæ, lib. III." 1 vol. folio, London, 1676; published by Ray from his posthumous papers. It was translated by Salerne with additions, in 1 vol. 4to. Paris, 1767.

"Historia Piscium, lib. IV." 2 vols. folio. Oxford, 1685.

The plates of these two works are mostly copied from other authors.

Wils.—Wilson (Alexander), an American naturalist, born in 1766, and died in 1813.

"American Ornithology," with coloured

plates, 9 vols. 4to. Philadelphia, 1808—1814.

A new edition, 3 vols. 4to. appeared in 1828.

Wolff (J. F.), a German naturalist.

"Icones Cimicum Descriptionibus Illustratæ," 4 Nos. 4to. Erlangæ, 1804.

Wolff, joint author with **Meyer** of the "Almanack of German Birds."

Worm. or **Mus. Worm.**—**Wormius**, or **Worm. Olaus**, Professor at Copenhagen, born in 1588, died in 1654.

"Museum Wormianum," 1 vol. folio. Leyden, 1650.

Yarr.—**Yarrel**, an English naturalist, author of various papers in the Zoological Journal of London, &c.

Zed.—**Zeder** (J. G. H.), a German naturalist.

Author of "First Supplement to the Natural History of Intestinal Worms by Goeze," 1 vol. 4to. Leipzic, 1800.

"An Introduction to the Natural History of the Intestinal Worms," 1 vol. 8vo. Bamberg, 1803.

Zetterst.—**Zettersted** (J. G.), a Swedish naturalist.

"Orthoptera Sueciæ," 1 vol. 8vo. Lundæ, 1811.

"Fauna Laponica," part first, 1 vol. 8vo. Hammone, 1828.

Zool. Journ.

Published in London by M. Vigors, aided by Messrs. Th. Bell, E. T Bennet, J. E. Bicheno, W. J. Broderip, J. G. Children, Gen. T. H. Hardwicke, Dr. Horsefield, W. Kirby, the Messrs. Sowerby, father and son, and W. Yarrell. We have sixteen numbers, from 18— to 1829.

Zorgdr.—**Zorgdrager**, a Dutchman.

Author of a treatise on the whale fishery.

THE END.

GILBERT & RIVINGTON, PRINTERS,
St. John's Square, London.

A

TABULAR VIEW

OF THE

CLASSIFICATION OF ANIMALS

ADOPTED

BY THE BARON CUVIER;

WITH

SPECIFIC EXAMPLES.

CONSPECTUS

OF THE

ENTIRE ANIMAL KINGDOM.

ANIMALIA.

	Division.	*Class.*
	I. VERTEBRATA....	1. Mammalia 2. Aves 3. Reptilia 4. Pisces
INVERTEBRATA, *&c.*	II. MOLLUSCA........	1. Cephalopoda 2. Pteropoda 3. Gasteropoda 4. Acephala 5. Brachiopoda 6. Cirrhopoda
	III. ARTICULATA.....	1. Annelides 2. Crustacea 3. Arachnides 4. Insecta
	IV. RADIATA.........	1. Echinodermata 2. Entozoa 3. Acalephæ 4. Polypi 5. Infusoria

All animals may be reduced to one or other of these classes. It will be observed, that though the term 'Invertebrata' is introduced, it is not employed as significant of any peculiar form. The reason of this is, that it is merely a negative character, and such should never be used where positive can be obtained. Its vagueness is evident from its belonging to three out of four of the great primary divisions of the 'Animal Kingdom.'

VERTEBRATA.

CLASS I.—MAMMALIA.

This class is divided into nine orders.

Class.	*Order.*	
Mammalia	1. Bimana	Unguiculata.
	2. Quadrumana	
	3. Carnassier	
	4. Marsupiata	
	5. Rodentia	
	6. Edentata	
	7. Ruminantia	Ungulata.
	8. Pachydermata	
	9. Cetacea	

With respect to the term Carnassier, used by Cuvier for his third order, some observations will be found in our second volume, at the commencement of the supplementary matter on the order.

ORDER I.—BIMANA.

This order contains only one genus, and a single species, with its varieties, as here under:

Genus.	*Species.*	*Varieties.*
Homo	Homo	1. Caucasian
		2. Mongolian
		3. Ethiopian
		4. Malayan?
		5. American?

Only the first three varieties are considered by Cuvier as possessing sufficiently distinctive characters to deserve separate description. "The Malays," he says, "pass by imperceptible shades into their neighbours, the Caucasian Hindoos on one side, and the Mongolian Chinese on the other." The Americans also want that precise and constant character necessary to constitute a peculiar race. For these reasons we have marked the two last varieties with a query.

In this order we have given even the varieties; in the others we can go no farther than the subgenera, with one specific example of each: our space compels us to this arrangement.

ORDER II.—QUADRUMANA.

Of this order three principal genera are enumerated, viz. I. Simia, *Lin.*, II. Hapale, *Illig.*, and III. Lemur, *Lin.*; the first and last of these contain so many subgenera and species that they almost deserve to rank as distinct families, for Simia has fifteen subgenera, Lemur five, while Hapale has only two, which however contain more than eight different species.

Genus.	*Subgenus.*	*Example of Species.*
I. Simia, *Lin.*	1. Pithecus, *Geoff.*	Simia satyrus, L. *Ourang outang*
	2. Hylobates, *Illig.*	S. lar, L. *Gibbon*
	3. Cercopithecus, *Erxl.*	S. Sabæa, L. *Green monkey*
	4. Semnopithecus, *F. Cuv.*	S. Maura, L. *Negro monkey*
	5. Macacus, *Lacép.*	S. Sinica, Gm. *Chinese monkey*
	6. Inuus, *Cuv.*	S. sylvanus, L. *Barbary ape*
	7. Cynocephalus, *Cuv.*	S. cynocephalus, L. *Little baboon*
	8. Papio, *Briss.*	S. maimon, L. *Mandrill*
	9. Mycetes, *Illig.*	S. seniculus, *Red howling monkey*
	10. Ateles, *Geoff.*	Ateles arachnoïdes, Geoff. *Spider monkey*
	11. Lagothrix, *Geoff.*	Lag. Humboldtii, Geoff. *Capparo*
	12. Cebus, *Geoff.*	S. apella, L. *Weeper monkey*
	13. Callithrix, *Cuv.*	S. sciureus, L. *Squirrel monkey*
	14. Pithecia, *Desm.*	S. lugens, Humb. *Widow monkey*
	15. Nocthora, *F. Cuv.*	Noct. trivirgata, F. Cuv. *Dourou-couli*
II. Hapale, *Illig.*	1. Jacchus, *Geoff.*	S. Jacchus, L. *Stunted monkey*, or *Jacchus*
	2. Midas, *Geoff.*	S. rosalia, L. *Lion monkey*
III. Lemur, *Lin.*	1. Lemur, *Cuv.*	Lem. catta, L. *Ring-tailed lemur*
	2. Lichanotus, *Illig.*	Lem. indri, Sonn.
	3. Stenops, *Illig.*	L. gracilis, *Slender loris*
	4. Galago, *Geoff.*	L. potto, Gm. the *African potto*
	5. Tarsius, *Storr.*	L. spectrum, Pall.

This is according to the classification followed by Cuvier in the second edition of his *Règne Animal*, published in 1829.

The first eight subgenera of *Simiæ* inhabit the old world, the remainder are found in the new, and have received the general appellation of SAPAJOUS (Cebus *Erxl*).

ORDER III.—CARNASSIER.

This order is divided into three great families, Cheiroptera, Insectivora, and Carnivora, the last of which is subdivided into three tribes, Plantigrada, Digitigrada, and Amphibia. In the first edition of the *Règne Animal* the Marsupiata were added as a fourth family of this order; they now, with greater propriety, constitute an order by themselves.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. Cheiroptera.	I. Vespertilio, *L.*	1. Pteropus, *Briss.*	Pt. edulis, Geoff. *Black roussette*
		2. Cephalotes, *Geoff.*	Ceph. Peronii, Geoff.
		3. Molossus, *Geoff.*	M. longicaudatus, *Bull-dog bat*
		4. Nyctinomus, *Geoff.*	N. tenuis, Hors. *Lowo-churut of Java*
		5. Cheiromeles, *Hors.*	C. torquatus, Hors.
		6. Stenoderma, *Geoff.*	S. rufa, Geoff.
		7. Noctilio, *Lin.*	Vespert. leporinus, Gm. *Peruvian bat*
		8. Phyllostoma, *Cuv.*	Vesp. spectrum, Lin. *Spectre*, or *true Vampyre bat*
		9. Glossophaga, *Geoff.*	Vesp. soricinus, Pall. *Leaf bat*
		10. Megaderma, *Geoff.*	M. lyra, Geoff. *Lyre bat*
		11. Rhinolophus, *Geoff*	Vesp. ferrum equinum, Lin. *Horse-shoe bat*
		12. Nycteris, *Geoff.*	Vesp. hispida, Lin. *Bearded bat*
		13. Rhinopoma, *Geoff.*	R. microphylla, Desm.
		14. Taphozous, *Geoff.*	Vesp. lepturus, Schr. *Pouched bat*, or *Slender-tailed bat*
		15. Mormoops, *Leach*	M. Blainvillii, Leach
		16. Vespertilio, *Cuv.* & *Geoff.*	V. Murinus, Lin. *Common bat*
		17. Plecotus, *Geoff.*	Vesp. auritus, Lin. *Long-eared bat*
		18. Nycticeius, *Rafin.*	Vesp. lasiurus, Schr. *Rough-tailed bat*
	II. Galeopithecus, *Pall.*		Lemur volans, Lin. *Flying macauco*, or *Flying colugo*

Family.	*Genus.*	*Example of Species.*
II. Insectivora.	1. Erinaceus, *Lin.*	E. Europæus, L. *Common hedgehog*
	2. Centenes, *Illig.*	Erin. ecaudatus, L. the *Tenrec*
	3. Cladobates, *Fr. Cuv.*	Tupaia Javanica, Hors.
	4. Sorex, *Lin.*	S. Araneus, L. *Common shrew*
	5. Mygale, *Cuv.*	Sorex moschatus, L. the *Desman*, or *Russian musk rat*
	6. Chrysochloris, *Lacép.*	Talpa Asiatica, L. *Cape chrysochlore*
	7. Talpa, *Lin.*	T. Europæa, L. *Common mole*
	8. Condylura, *Illig.*	Sorex Cristatus, L. *Radiated mole*
	9. Scalops, *Cuv.*	Sor. aquaticus, L. the *Scalops of Canada*, or *Shrew mole*

ORDER III.—Carnassier *(continued).*

Family.	*Tribe.*	*Genus.*	*Example of Species.*
III. Carnivora.	I. Plantigrada	1. Ursus, *Lin.*	U. arctos, L. *Common brown bear*
		2. Procyon, *Storr.*	Ursus lota, L. *Racoon*
		3. Ailurus, *Fr. Cuv.*	A. refulgens, Fr. Cuv.
		4. Ictides, *Valenc.*	I. albifrons, Fr. Cuv.
		5. Nasua, *Storr.*	Viverra nasua, L. *Red coati*
		6. Cercoleptes, *Illig.*	Viv. caudivolva, Gm. the *American potto*
		7. Meles, *Storr.*	Ursus meles, L. *Common badger*
		8. Gulo, *Storr.*	Ursus gulo, L. the *Glutton*
		9. Ratellus, *Fr. Cuv.*	Viv. mellivora, L. *Honey ratel*
	II. Digitigrada	1. Putorius, *Cuv.*	Mustela putorius, L. *Common pole cat*
		2. Mustela, *Cuv.*	M. martes, L. *Common marten*
		3. Mephitis, *Cuv.*	M. Americana, Desm. *Skunk*
		4. Lutra, *Storr.*	Must. lutra, *Common otter*
		5. Canis, *Lin.*	C. familiaris, L. the *Dog*
		6. Vivera, *Cuv.*	V. civetta, L. the *Civet*
		7. Genetta, *Cuv.*	Viverra genetta, L. *Common genet*
		8. Paradoxurus, *Fr. Cuv.*	P. typus, Fr. Cuv. *Common paradoxurus*, or *Palm martin* of the French
		9. Herpestes, *Illig.*	Viv. ichneumon, L. the *Ichneumon*
		10. Ryzæna, *Illig.*	Viv. tetradactyla, L. the *Surikate*
		11. Crossarchus, *Fr. Cuv.*	C. obscurus, Fr. Cuv.
		12. Proteles, *Is. Geoff.*	P. Lalandii, Is. Geoff.
		13. Hyæna, *Storr.*	Canis hyæna, L. *Striped hyæna*
		14. Felis, *Lin.*	F. leo, L. the *Lion*
	III. Amphibia	1. Phoca, *Cuv.*	P. vitulina, L. *Common seal*
		2. Stenorhyncus, *Fr. Cuv.*	Phoc. leptonyx, Blainv. *Small-clawed seal*
		3. Pelagus, *Fr. Cuv.*	Ph. monachus, Gm. *White-bellied seal*
		4. Stemmatopus, *Fr. Cuv.*	Ph. cristata, Gm. *Hooded seal*
		5. Macrorhyna, *Fr. Cuv.*	Ph. leonima, L. *Sea lion*, or *sea elephant*
		6. Otaria, *Peron.*	Ph. ursina, L. *Common sea bear*
		7. Trichecus, *Lin.*	T. rosmarus, L. *Morse, sea cow, sea horse*, &c.

The tribe Digitigrada contains three subdivisions, distinguished by their mode of dentition, and represented by the weasel, the dog, and the cat: these we have endeavoured to indicate above by smaller brackets, within the general bracket including all the genera of the tribe. The Amphibia also formerly made but two genera, the seals (*Phoca*) and the Morses (*Trichecus*), the first of which we see Cuvier has here extended to several subdivisions.

ORDER IV.—MARSUPIATA.

The arrangement of these animals, chiefly inhabitants of the Australian continent, seems by no means decided. In his first edition Cuvier had made of them a family of the order Carnassier; in the second he established them into a separate order; but even then expressed his opinion that they ought rather to be looked on as a class containing several orders running parallel with the orders of ordinary quadrupeds. He finally, however, left them as an order divided into seven genera, three of which are subdivided.

Genus.	*Subgenus.*	*Example of Species.*
I. Didelphis, *L.*	1. Didelphis, prop. *Cuv.*	D. Virginiana, Penn. *Virginian opossum*
	2. Chironectes, *Illig.*	Did. palmata, Geoff. *Yapock*, or *palmated opossum*
II. Dasyurus, *Geoff.*	1. Thylacini, *Tem.*	Dasyurus cynocephalus, Geoff. *Dog-faced dasyurus*
	2. Phascogali, *Tem.*	Das. minimus, Geoff. *Dwarf dasyurus*
	3. Dasyurus, prop. *Cuv.*	Didelphis ursina, Harr. the *Devil*
	4. Perameles, *Geoff.*	P. nasutus, Geoff. the *Long-nosed pouched badger*
III. Phalangista, *Cuv.*	1. Balantia, *Illig.*	Phal. ursina, Tem. *Bear-like phalanger*
	2. Petaurus, *Shaw*	Did. pygmæa, Shaw, *Flying dwarf phalanger*
IV. Hypsiprimnus, *Illig*		Macropus minor, Shaw, *Kangaroo rat*
V. Macropus, *Shaw*		M. major, Shaw, *Gigantic kangaroo*
VI. Lipurus, *Goldfuss*		L. cinereus, Goldfuss. *Koala*, or *New Holland sloth*
VII. Phascolomys, *Geoff*		Did. ursina, Shaw, the *Wombat*

ORDER V.—RODENTIA.

In his first edition Cuvier had divided this order into two sections, the first possessing perfect, the second only rudimentary clavicles: these divisions ran by such gradual shades into each other, that the point of separation was, we may say, almost arbitrary. In his second edition, therefore, he contents himself by arranging his genera and indicating such as possess strong clavicles or the reverse.

ORDER V.—Rodentia.

Genus.	*Subgenus.*	*Example of Species.*
I. Sciurus, *L.*	1. Sciurus, prop. *Cuv.*	Sc. vulgaris, L. *Common squirrel*
	2. Pteromys, *Cuv.*	Sc. volans, L. *European flying squirrel*
	3. Cheiromys, *Cuv.*	Sc. Madagascariensis, Gm. the *Aye-aye*
II. Mus, *L.*	1. Arctomys, *Gm.*	Mus Alpinus, L. *Marmot of the Alps*
	2. Myoxus, *Gm.*	Mus glis, L. the *Dormouse*
	3. Echimys, *Geoff.*	E. spinosus, Desm. *Spiny rat of Azzara*
	4. Hydromys, *Geoff.*	H. leucogaster, Geoff.
	5. Capromys, *Desm.*	C. Fournieri, Desm.
	6. Mus, prop., *Cuv.*	M. rattus, L. the *Rat*
	7. Gerbillus, *Desm.*	Dipus tamaricinus, Gm. *Tamarisk rat*
	8. Meriones, *Fr. Cuv.*	Mus Labradorius, Sabine, *Labrador gerbil*
	9. Cricetus, *Cuv.*	Mus cricetus, L. *Common hamster*
	10. Fiber, *Cuv.*	Mus Zibeticus, Gm. *Ondatra*, or *Musk rat of Canada*
	11. Arvicola, *Cuv.*	Mus amphibius, L. *Water rat*
	12. Georychus, *Illig.*	Mus lemmus, L. the *Lemming*
	13. Otomys, *Fr. Cuv.*	O. capensis, Fr. Cuv.
	14. Dipus, *Gm.*	Mus sagitta, L. the *Jerboa*
III. Helamys, *Fr. Cuv.*		Dipus Caffer, Gm. *Cape jerboa*
IV. Spalax, *Guldenstedt*		Mus typhlus, Pall. *Blind rat-mole*
V. Bathyergus, *Illig.*		Mus capensis, Gm. *Cape mole*
VI. Geomys, *Rafin.*		Mus bursarius, Shaw, *Canada rat*
VII. Diplostoma, *Rafin.*		D. ? Rafin. *Tailless rat*
VIII. Castor, *L.*		C. fiber, L. the *Beaver*
IX. Myopotamus, *Comm.*		Mus coïpus, Molin. the *Couïa*
X. Hystrix, *L.*	1. Hystrix, prop. *Cuv.*	H. cristata, L. *Crested porcupine*
	2. Atherures, *Cuv.*	H. fasciculata, *Brush-tailed porcupine*
	3. Eretisons, *Fr. Cuv.*	H. dorsata, Gm. *Canada porcupine*
	4. Synetheres, *Fr. Cuv.*	H. prehensilis, L. the *Coendou* or *Prehensile-tail porcupine*,
XI. Lepus, *L.*	1. Lepus, prop. *Cuv.*	L. timidus. L. the *Common hare*
	2. Lagomys, *Cuv.*	Lep. pusillus, Pall. the *Calling hare*
XII. Hydrochærus, *Erx.*		Cavia capybara, L. the *Capybara*
XIII. Cavia, *Illig.*		C. cobaya, Pall. the *Guinea-pig*
XIV. Dasyprocta, *Illig.*		D. acuti, Ill. the *Agouti*, or *Long-nosed cavy*
XV. Cœlogenys, *Fr. Cuv.*		Cavia paca, L. the *Paca*

Cuvier suggests that the *Chinchilla*, the furs of which arrive in such quantities in these countries, should, from its evident connection with the cavies, come at the end of this order. Nothing but want of information respecting its dentition prevented him from placing it there. The Marmot Diana, of which we gave a figure in our third volume, p. 172, he says is the same as the *Viscache* of Azzara, and considers it merely as a larger kind of *Chinchilla*, with rougher and longer hair.

ORDER VI.—EDENTATA.

The *Edentata* Cuvier divides into three tribes, the *Tardigrades*, including the first two genera; the common *Edentata*, including the next four; and the *Monotremata*, including the remaining two.

Tribe.	*Genus.*	*Subgenus.*	*Example of Species.*
I. TARDIGRADA.	I. Bradypus, *L.*	1. Acheus, *Fr. Cuv.*	Brad. tridactylus, L. the *Aï*, or *three-toed sloth*
		2. Bradypus, prop. *Fr. Cuv.*	B. didactylus, L. the *Unau*, or *two-toed sloth*
	II. Megatherium, *Cuv*		Megatherium, C. *Great fossil animal*
II. EDENTATA.	III. Dasypus, *L.*	1. Cachicames, *Cuv.*	Das. 9-cinctus, L. *Nine-banded armadillo*
		2. Apara, *Cuv.*	Das. 3-cinctus, L. *Three-banded armadillo*
		3. Encouberts, *Cuv.*	Das. 6-cinctus, L. *Six-banded armadillo*
		4. Priodontes, *Fr. Cuv.*	Das gigas, L. *Giant armadillo*
		5. Chlamyphorus, *Harl.*	C. truncatus, Harl.
	IV. Orycteropus, *Geoff.*		O. capensis, Illig. *Cape ant-eater*, or *ground hog*
	V. Myrmecophaga, *L.*		M. jubata, L. *Great* or *maned ant-eater, bear ant-eater*
	VI. Manis, *L.*		M. pentadactyla, L. *Short-tailed ant-eater*
III. MONOTREMATA.	VII. Echidna, *Cuv*		E. hystrix, Cuv. the *Spiny echidna*, or *porcupine ornithorynchus*
	VIII. Ornithorynchus, *Blum.*		O. paradoxus, Blain. the *Duck-billed platypus*

ORDER VII.—PACHYDERMATA.

This order is also divided into three tribes or families, I. the *Proboscidiana*, or those furnished with a proboscis, including the elephant and some fossil animals; II. the *common Pachydermata*, including all the rest of the order except the horse, which belongs to family III., *Solipeda*, or solid-footed.

Family.	*Genus.*	*Example of Species.*
I. PROBOSCIDIANA	1. Elephas, *L.*	E. Indicus, Cuv. *Indian elephant*
	2. Mastodon, *Cuv.*	Mastodon, Cuv. (fossil)

ORDER VII.—PACHYDERMATA *(continued)*.

Family.	*Genus.*	*Example of Species.*
II. COMMON PACHYDERMATA.	1. Hippopotamus, *L.*	H. amphibius, L. the *Hippopotamus*
	2. Sus, *L.*	S. scropha, L. the *Hog*
	3. Phacocœrus, *Fr. Cuv.*	Sus Africanus, Gm. *Cape Verde boar*
	4. Dicotyles, *Cuv.*	D. torquatus, Cuv. *Collared peccary*
	5. Anoplotherium, *Cuv.*	A. commune, Cuv. (fossil)
	6. Rhinoceros, *L.*	R. Indicus, Cuv. *Indian rhinoceros*
	7. Hyrax, *Hermann.*	H. capensis, Gm. *Cape hyrax,* or *cape badger*
	8. Palæotherium, *Cuv.*	Palæotherium, Cuv. (fossil)
	9. Lophiodorus, *Cuv.*	Lophiodon, Cuv. (fossil)
	10. Tapir, *L.*	T. Americanus, Gm. *American tapir*
III. SOLIPEDA	Equus, *L.*	E. Caballus, L. the *Horse*

The *common Pachydermata* we have marked off into two subdivisions, in the first of which the toes are of an even number, four or two, and assume something of a bifurcated appearance, approaching, as do also in some measure their skeletons and stomachs, the forms proper to ruminant animals; in the second subdivision the toes are of an odd number, and want this appearance. Sus, Phacocœrus, and Dicotyles, are merely subgenera of the Linnæan genus Sus, which name we have left to the first of them.

ORDER VIII.—RUMINANTIA.

This order is naturally distinguished into two families, those without and those with horns. To the former belong the camel and musk; to the latter all the other genera. Horns are of three kinds, specimens of which may be seen in the deciduous antler of the stag, the permanent invested protuberances of the cameleopard, and the true horn or hollow corneous case of the cow, sheep, antelope, &c. These differences have been employed to subdivide the second family. Col. Hamilton Smith divides the whole order into five tribes, the types of which are the camel, the stag, the giraffe, the goat, and the ox. For further particulars see our fifth volume, p. 296, *et seq.*

Family.	*Genus.*	*Example of Species.*
I. AKERATOPHORA, or HORNLESS.	1. Camelus, *L.*	C. Bactrianus, L. the *Bactrian camel*
	2. Moschus, *L.*	M. moschiferus, L. the *Musk*

ORDER VIII.—RUMINANTIA *(continued)*.

Family.	*Genus.*	*Example of Species.*
II. KERATOPHORA, or HORNED.	1. Cervus, *L.*	C. alces, L. the *Elk*, or *Moose-deer*
	2. Camelopardalis, *L.*	C. girafa, Fr. Cuv. the *Giraffe*
	3. Antelope, *L.*	A. dorcas, L. the *Gazelle*
	4. Capra, *L.*	C. ægagrus, Gm. the *Wild goat*
	5. Ovis, *L.*	O. Ammon, L. the *Argali*
	6. Bos, *L.*	B. taurus, L. the *Common ox*

ORDER IX.—CETACEA.

Here also we have two families, the herbivorous cetacea, including the first three genera, and the common cetacea, comprehending all the rest. This latter family is again subdivided, according as the head is of the ordinary proportion to the body, as we see in Delphinus and Monodon, or is disproportionately large, as is the case in Physeter and Balæna.

Genus.	*Subgenus.*	*Example of Species.*
I. Manatus, *Cuv.*		Trichecus manatus, L. the *Manati, Sea-cow*, or *Lamantin*
II. Halicore, *Illig.*		H. Indicus, Ill. the *Dugong*
III. Rytina, *Illig.*		Trich. borealis, Sh. *Whale-tailed manati*
IV. Delphinus, *L.*	1. Delphinus prop. *Cuv.*	D. delphis, L. *Common dolphin*
	2. Phocæna, *Cuv*	Delph. phocæna, L. the *Porpoise*
	3. Delphinapterus, *Lac.*	D. leucas, Gm. the *Beluga*
	4. Hyperoodon, *Lac.*	Balæna rostrata, Klein. *Bottle-nosed whale*
V. Monodon, *L.*		M. monoceros, L. the *Narwal*, or *Sea-unicorn*
VI. Physeter, *L.*	1. Catodon, *Lacép.*	Phys. macrocephalus, Gm. *Great-headed cachalot*, or *Spermaceti whale*
	2. Physeter, *Lacép.*	P. microps, Lac. *Small-eyed cachalot*
VII. Balæna, *L.*	1. Balæna, prop. *Lacép.*	B. mysticetus, L. *Common whale*
	2. Balænoptera, *Lacép.*	B. musculus, L. the *Rorqual.*

VERTEBRATA.

CLASS II.—AVES.

This class comprises six orders.

Class.	*Order.*
Aves	1. Accipitres (*Birds of prey*)
	2. Passeres (*Sparrow kind*)
	3. Scansores (*Climbers*)
	4. Gallinacea (*Poultry kind*)
	5. Grallæ (*Waders*)
	6. Palmipedes (*Web-footed*)

ORDER I.—Accipitres.

This order includes birds generally known as birds of prey; and is divided by Cuvier into the two natural families of *diurnal* and *nocturnal;* the former including the two great genera of Linnæus, the vultures and falcons; the latter, his genus of owls. These genera Cuvier has subdivided as under.

Genus.	*Subgenus.*	*Example of Species.*
I. Vultur, *L*	1. Vultur, prop. *Cuv.*	V. papa, L. *King of the Vultures*
	2. Cathartes, *Cuv.*	Vult. aura, L. *Carrion Vulture*
	3. Percnopterus, *Cuv.*	Vult. percnopt. L. *Pharaoh's chicken*
	4. Gypaetos, *Storr.*	Vult. barbatus, Gm. *Bearded vulture*, or *Læmmer-geyer*
II. Falco, *L.*	1. Falco, prop. *Bechstein*	F. communis, Gm. *Common* or *Peregrine falcon*
	2. Hierofalco, *Cuv.*	Falco candicans, Gm. the *Gerfalcon*
	3. Aquila, *Cuv*	Falco fulvus, Gm. *Common eagle*
	4. Haliætus, *Savigny.*	Falco ossifragus, Gm. *Sea-eagle*, or *Osprey*
	5. Pandion, *Savigny.*	Falco haliætus, L. *Balbuzzard*, or *Fish-hawk of America*
	6. Circaëtus, *Vieillot.*	Falco Gallicus, Gm. *Jean-le-Blanc*
	7. Caracara, *Azzara.*	Falco Brasiliensis, Gm. *Brazilian kite*
	8. Harpyia, *Cuv.*	Falco harpyia, Cuv. the *great harpy*
	9. Morphnus, *Cuv.*	Falco Guianensis, Daud. the *Tufted eagle of Guiana*

ORDER I.—ACCIPITRES (*continued*).

Genus.	*Subgenus.*	*Example of Species.*
II. Falco, *L.* (*continued*)	10. Cymindis, *Cuv.*	Falco Cayennensis, Gm. *Small Cayenne eagle*
	11. Astur, *Bechstein*	Falco palumbarius, L. *Goshawk*
	12. Nisus, *Cuv.*	Falco nisus, L. *Sparrow-hawk*
	13. Milvus, *Bechstein*	Falco milvus, L. *Common kite*
	14. Pernis, *Cuv.*	Falco apivorus, L. *Common honey-buzzard*
	15. Buteo, *Bechstein*	Falco buteo, L. *Common buzzard*
	16. Circus, *Bechstein*	Falco cyaneus, Gm. *Hen-harrier*
	17. Serpentarius, *Cuv.*	Falco serpentarius, Gm. *Snake-eater*, or *Secretary*
III. Strix, *L.*	1. Otus, *Cuv.*	Str. otus, L. *Common long-eared owl*
	2. Ulula, *Cuv.*	Str. laponica, Gm. *Great gray howler*
	3. Strix, prop. *Savigny*	Str. flammea, L. *Common white* or *barn owl*
	4. Syrnium, *Savigny*	Str. stridula, L. the *wood-owl*
	5. Bubo, *Cuv*	Str. bubo, L. *Great horned owl*
	6. Noctua, *Savigny*	Str. surnia, Dum. *Hawk-owl*
	7. Scops, *Savigny*	Str. leucotis, Tem. *White-eared owl*

ORDER II.—PASSERES.

This order is not clearly defined, nor does it appear very well divided. As to the former, it seems to contain every bird that does not belong to any other of the orders; as to the latter, Cuvier appears to have done whatever was possible, under the present state of knowledge, by using for his primary divisions the nature of the feet, and for his secondary, or division into families, the peculiarities of the bill. As respects the feet, they are divided into those which have the external toe united to the internal only as far as the first or second phalanx, and those called Syndactyles, in which the union extends to all but the last articulation. The first of these divisions is by far the most numerous, and contains the families Dentirostres, Fissirostres, Conirostres, and Tenuirostres, with their several genera and subgenera, as underneath: the second forms but one family, containing six genera.

ORDER II.—PASSERES.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. DENTIROSTRES.	I. Lanius, *L.*	1. Lanius, prop. *Cuv.*	L. excubitor, L. *Great cinereous shrike*
		2. Vanga, *Buff.*	Lan. curvirostris, L. *Hook-billed shrike*
		3. Ocypterus, *Cuv.*	O. rufiventer, Val. *Red-bellied swallow-shrike*
		4. Barita, *Cuv.*	Gracula varia, Shaw
		5. Chalybæus, *Cuv.*	C. paradisæus, Cuv. *Black bird of paradise*
		6. Psaris, *Cuv.*	Lan. Cayanus, Gm.
		7. Graucalus, *Cuv.*	Corvus Papuensis, Gm. *Papuan crow*
		8. Bethylus, *Cuv.*	Lan. Leverianus, Sh. *Lever's shrike*
		9. Falcunculus, *Vieill.*	Lan. frontatus, Lath. *Frontal shrike*
		10. Pardalotus, *Vieill.*	Pipra punctata, Sh. *Shrike-wren*
	II. Muscicapa, *L.*	1. Tyrannus, *Cuv*	Musc. ferox, Gm. *Tyrant fly-catcher*
		2. Muscipeta, *Cuv.*	Musc. cœrulea, L. *Azure fly-catcher*
		3. Platyrhynchus, *Vieill.*	Musc. aurantia, L. *Orange-breasted fly-catcher*
		4. Muscicapa prop. *Cuv.*	M. grisola, Gm. *Spotted fly-catcher*
		5. Gymnocephalus, *Geoff.*	Corvus calvus, Gm. *Bald crow*
		6. Cephalopterus, *Geoff.*	C. ornatus, Geoff. *Umbelled chatterer*
		7. Ampelis prop. *Lin.*	A. cotinga, L. the *Cordon bleu*
		8. Tersina, *Vieill.*	Ampel. tersa, Gm.
		9. Ceblepyris, *Cuv.*	Musc. ochracea, Sp. *African fly-catcher*
		10. Bombycilla, *Briss.*	Ampel. garrulus, L. *European chatterer*
		11. Procnias, *Hofm.*	Ampelis cucullata, Tem. *Hooded chatterer*
		12. Casamarynchos, *Tem.*	Amp. variegata, L. *Variegated chatterer*
		13. Gymnoderus, *Geoff.*	Gracula nudicollis, Sh.
		14. Edolius, *Cuv.*	Lanius cœrulescens, Gm. *Fork-tailed shrike*
		15. Phibalurus, *Vieill.*	P. flavirostris, Vieill.
	III. Tanager, *L.*	1. Euphones, *Cuv.* (Bulfinch tanager)	Tan. violacea, L. *Golden tanager*
		2. Saltator, *Vieill.* (Gross-beak tanager)	Tan. magna, Gm. *Grand tanager*
		3. Tanager, prop. *Cuv.* (True tanager)	Tan. talao, L. *Paradise tanager*

ORDER II.—Passeres *(continued)*.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. Dentirostres *(continued)*.	III. Tanager, *L.* (*cont.*)	4. Tachyphonus, *Vieill.* (Oriole tanager)	Tan. cristata, L. *Crested tanager*
		5. Pyranga, *Vieill.* (Cardinal tanager)	Tan. æstiva, Gm. the *Summer red-bird*
		6. Rhamphocelus, *Vieill.* (Ramphoceline tanager)	Tan. Brasiliensis, L. *Brazilian tanager*
	IV. Turdus, *L.*	1. Merula, *Cuv*	Turd. merula, L. *Common blackbird*
		2. Turdus, prop. *Cuv.*	T. musicus, Gm. *Common thrush*
		3. Lamprotornis, *Cuv.*	Turd. cantor, Sonn. *Songster thrush*
		4. Ixos, *Tem.*	Turd. analis, Hors. *Guava fly-catcher*
		5. Tanypus, *Oppel.*	Corvus grallarius, Sh. *King of the ant-eaters*
		6. Criniger, *Tem.*	C. barbatus, Tem.
		7. Myothera, *Illig.*	Turd. cyanurus, Lath. *Blue-tailed thrush*
		8. Orthonyx, *Tem.*	Orthonyx ? Tem.
		9. Cinclus, *Bechst*	Sturnus cinclus, L. *Water blackbird*
		10. Philedon	Merops carunculatus, Lath. *Wattled bee-eater*
		11. Eulabes, *Cuv.*	E. Javanus, *Cuv.*
	V. Gracula, *Cuv.*	1. Gracula, prop. *Cuv.*	Turd. roseus, L. *Rose-coloured blackbird*
		2. Manorrhina, *Vieill.*	M. viridis, *Vieill.*
	VI. Pyrrhocorax, *Cuv.*		Corvus pyrrhocorax, L. *Alpine chocard*
	VII. Oriolus, *L.*		O. galbula, L. *European oriole*
	VIII. Gymnops, *Cuv*		Merops corniculatus, Lath. *Knob-fronted honey-eater*
	IX. Mænura, *Sh.*		M. lyra, Vieill. the *Lyre*
	X. Motacilla, *L.*	1. Saxicola, *Bechst.*	Mot. rubicola, L. *Stonechat*
		2. Sylvia, *Wolf.*	Mot. rubecula, L. *Redbreast*
		3. Curruca, *Bechst*	Mot. luscinia, L. *Nightingale*
		4. Accentor, *Bechst.*	Mot. Alpina, Gm. *Alpine warbler*
		5. Regulus, *Cuv.*	Mot. regulus, L. *Gold-crested wren*
		6. Troglodytes, *Cuv.*	Mot. troglodytes, L. *Common wren*
		7. Motacilla, prop. *Cuv.*	M. alba, L. *White wagtail*
		8. Budytes, *Cuv.*	Mot. flava, L. *Yellow wagtail*
		9. Anthus, *Bechst.*	Alauda trivialis, Gm. *Field lark*

ORDER II.—PASSERES (*continued*).

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. DENTIROSTRES.	XI. Pipra, *L.*	1. Rupicola, *Briss.*	Pip. rupicola, L. *Rock manakin*
		2. Calyptomenes, *Hors.*	C. viridis, Hors.
		3 Pipra, prop. *Cuv.*	P. rubrocapilla, Pall. *Red-capped manakin*
	XII. Eurylaimus, *Hors*		Todus macrorhyncus, Gm.
II. FISSIROSTRES[1].	I. Hirundo, *L.*	1. Cypselus, *Illig*	Hirundo apus, L. *Swift*
		2. Hirundo, prop, *Cuv.*	H. urbica, L. *Window swallow*
	II. Caprimulgus, *L.*	1. Caprimulgus, prop. *Cuv*	C. Europæus, L. *Goat-sucker*
		2. Podargus, *Cuv.*	P. Cuvieri, Vieill. *Ash-coloured goat-sucker*
III. CONIROSTRES.	I. Alauda, *L.*		A. arvensis, L. *Skylark*
	II. Parus, *L.*	1. Parus, prop. *Cuv.*	P. major, L. *Great titmouse*
		2. Mystacinus, *Bore*	Par. biarmicus, L. *Bearded titmouse*
		3. Remiz, *Cuv.*	Par. pendulinus, L. *Penduline titmouse*
	III. Emberiza, *L.*	1. Emberiza, prop. *Cuv.*	E. miliaria, L. *Common bunting*
		2. Plectrophanes, *Meyer*	Emb. nivalis, L. *Snow bunting*
	IV. Fringilla, *L.*	1. Ploceus, *Cuv*	Oriolus textor, Gm. *Weaver oriole*
		2. Pyrgita, *Cuv*	Fring. domestica, L. *House sparrow*
		3. Fringilla, prop. *Cuv.*	F. cœlebs, L. *Chaffinch*
		4. Carduelis, *Cuv.*	Fring. carduelis, L. *Goldfinch*
		5. Linaria, *Bechst*	Fring. cannabina, L. *Great linnet*
		6. Serinus, *Gm*	Fring. canaria, L. *Canary bird*
		7. Vidua, *Cuv.*	V. longicauda, L. *Long-tailed widow-bird*
		8. Coccothraustes, *Cuv.*	Loxia coccoth. L. *Common gross-beak*
		9. Pitylus, *Cuv.*	Loxia grossa, L. *White-throated gross-beak*
	V. Pyrrhula[2], *Cuv.*		Loxia, pyrrhula, L. *Bulfinch*
	VI. Loxia, *Briss*		L. curvirostra, L. *Crossbill*
	VII. Corythus, *Cuv*		Loxia enucleator, L. *Pine grossbeak*
	VIII. Colius, *Gm*		C. capensis, Gm. *Cape coly*
	IX. Buphaga, *Briss*		B. Africana, Vaill. *Beef-eater*
	X. Cassicus	1. Cassicus, prop. *Cuv.*	C. bifasciatus, Spix, *Two-banded cassique*

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[1] The two genera of this family, like the two grand subdivisions of the Accipitres, present a natural distinction of habit, the first being birds that seek their prey by day, the second only by night.

[2] It does not seem very evident from the text, whether Pyrrhula should be a genus, or only a subgenus of Fringilla; in truth, the transitions, particularly in this family, are often so gradual as to elude all attempts at definition.

ORDER II.—Passeres (*continued*).

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
III. Conirostres (*continued*).	X. Cassicus, (*cont.*)	2. Icterus	Oriolus Cayanus, Lath. *Yellow-winged oriole*
		3. Xanthornus	Embœriza pecoris, Wils. *Cow-bunting*
		4. Oxyrhincus, *Tem.*	O. flammiceps, Tem.
		5. Dacnis, *Cuv*	Motacilla Cayana, *Cayenne Warbler*
	XI. Sturnus, *L*		S. vulgaris, L. *Common stare*
	XII. Corvus, *L.*	1. Corvus, prop. *Cuv.*	C. frugilegus, L. *Rook*
		2. Pica, *Cuv.*	Corv. pica, L. *Magpie*
		3. Garrulus, *Cuv*	Corv. cristatus, L. *Blue jay*
		4. Caryocatactes, *Cuv*	Corv. caryocat. L. *Nutcracker*
		5. Temia, *Vaill.*	Corv. varians, Lath. *Variable crow*
		6. Glaucopis, *Forst*	G. cinerea, Lath. *Wattle-bird*
	XIII. Coracias, *L.*	1. Coracias, prop. *Cuv.*	C. garrula, L. *Garrulous roller*
		2. Colaris, *Cuv.*	Coracias Afra, L. *African roller*
	XIV. Paradisea, *L.*		P. apoda, L. *Great bird of Paradise*
IV. Tenuirostres.	I. Sitta, *L*	1. Sitta, prop. *Cuv.*	S. Europæa, L. *Common nuthatch*
		2. Xenops, *Illig*	X. rutilus, Licht.
		3. Anabates, *Tem.*	A. cristatus, Spix
		4. Synallaxis, *Vieill.*	S. ruficapilla, Vieill.[1]
	II. Certhia, *L.*	1. Certhia, prop. *Cuv.*	C. familiaris, Gm. *European creeper*
		2. Dendrocolaptes, *Herm.*	Gracula Scandens, Lath. *Climbing grakle*
		3. Tichodroma, *Illig.*	Certh. fusca, Lath. *Brown scaler*
		4. Nectarina, *Illig.*	Certh. cardinalis, Vieill. *Cardinal creeper*
		5. Dicæum, *Cuv*	Certh. rubra, Vieill. *Scarlet creeper*
		6. Melithreptus, *Vieill.*	Certh. pacifica, Vieill. *Great hook-billed creeper*
		7. Cinnyris, *Cuv*	Certh. famosa, Gm. *Shining creeper*
		8. Arachnotheres, *Tem.*	A. longirostra, Tem. *Long billed spider-eater*
	III. Trochilus, *L.*	1. Trochilus, prop. *Lac.*	T. pella, Gm. *Topaz humming-bird*
		2. Orthorhynchus, *Lac.*	Troch. gigas, Vieill. *Giant humming-bird*
	IV. Upupa, *L.*	1. Fregilus, *Cuv*	Corvus gracula, L. the *Crave of Europe*
		2. Upupa, prop. *Cuv.*	U. epops, L. *Common hoopoe*
		3. Promerops, *Briss.*	Up. promerops, L. *Cape hoopoe*
		4. Epimachus, *Cuv.*	Up. magna, Gm. *Great hoopoe*

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[1] These being all South American species, have no English name.

ORDER II.—PASSERES *(continued)*.

Family.	*Genus.*	*Example of Species.*
V. SYNDACTYLI..	I. Merops, *L.*	M. apiaster, Gm. *Common bee-eater*
	II. Prionites, *Illig.*	P. Brasiliensis, Ill. *Brazilian motmot*
	III. Alcedo, *L.*	A. ispida, L. *Common kingfisher*
	IV. Ceyx, *Lacép.*	Alc. tridactyla, Pall. *Three-toed kingfisher*
	V. Todus, *L.*	T. viridis, Gm. *Green tody*
	VI. Buceros, *L.*	B. rhinoceros, L. *rhinoceros hornbill*

This fifth family is also the second general subdivision of the order distinguished, as we above explained, by the union of its toes, whence the name.

ORDER III.—SCANSORES.

Genus.	*Subgenus.*	*Example of Species.*
I. Jacamar, *Cuv.*	1. Galbula, *Briss.*	G. viridis, Lath. *Green jacamar*
	2. Jacamerops, *Le Vaill.*	Alcedo grandis, Gm. *Great jacamar*
II. Picus, *Cuv.*	1. Picus, *Lin.*	P. viridis, Gm. *Green woodpecker*
	2. Picoïdes, *Lacép.*	P. tridactylus, Edw. *Three-toed woodpecker*
III. Yunx, *Lin.*		Y. torquilla, L. the *Wryneck*
IV. Cuculus, *L.*	1. Cuculus, prop. *Cuv*	C. canorus, L. *Common cuckoo*
	2. Conas, *Vaill.*	Cuc. seniculus, L. *Mangrove cuckoo*
	3. Centropus, *Illig.*	Cuc. Egyptius, L. *Egyptian cuckoo*
	4. Leptosomus, *Vieill.*	Cuc. Afer, L. *African courol*
	5. Indicator, *Vaill.*	Cuc. indicator, Vaill. *Honey cuckoo*
	6. Monasa, *Vieill.*	Cuc. tranquillus, L. *Wax-bill barbet*
V. Phœnicophæus, *Vieill.*		P. Javanicus, Hors.
VI. Scythrops, *Lath*		S. Australasiæ, Sh. *Psittaceous horn-bill*
VII. Bucco, *L.*	1. Pagonias, *Illig.*	Buc. dubius, Gm. *Groove-billed barbican*
	2. Bucco, prop. *Cuv.*	B. grandis, L. *Great barbet*
	3. Tamatia, *Cuv.*	Buc. collaris, L. *Collared barbet*
VIII. Trogon, *L.*		T. viridis, L. *Green trogon*
IX. Crotophaga, *L.*		C. major, Vieill.
X. Ramphastos, *L.*	1. Rhamphastos, prop. *Cuv.*	R. toco, L. the *Toucan*
	2. Pteroglossus, *Illig.*	Ramph. viridis, L. *Green toucan*

ORDER III.—SCANSORES *(continued)*.

Genus.	*Subgenus.*	*Example of Species.*
XI. Psittacus, *L.*	1. Ara, *Kuhl*	Ps. Macao, L. *Red and blue maccaw*
	2. Conurus Ara, *Cuv.*	Ps. vittatus, Vaill. *Banded parrakeet*
	3. Palæornis, *Vig.* & *Horsf.*	Ps. Alexandri, L. *Rose-ringed parrakeet*
	4 Platycercus, *Vig.* & *Horsf.*	Ps. niger, L. *Black parrakeet*
	5. Plyctolophus, *Vieill.*	P. cristatus, L. *Great white cockatoo*
	6. Psittacus, prop, *Cuv.*	Ps. erythacus, L. *Grey parrot*
	7. Lory *Sh.*	Ps. lori, L. *Black-capped lory*
	8. Psittaculus, *Kuhl*	Ps. taïtianus, Gm. *Violet parrot*
	9. Microglossus, *Vieill.*	Ps. gigas, Lath. *Black cockatoo*
	10. Pezoporus, *Illig.*	Ps. formosus, Vaill. *Ground parrot*
XII. Corythaix, *Ill.*		Cuculus Persa, L. *Touraco plantain-eater*
XIII. Musophaga, *Isert.*		M. violacea, Vieill. *Violet plantain-eater*

ORDER IV.—GALLINACEA.

Most of our barn-door fowl, and many excellent game-birds, are to be found in this order, which takes its name from *Gallus gallinaceus*, the common cock and hen. It is composed in a great measure of one natural family, and is divided into genera, subgenera, and species.

Genus.	*Subgenus.*	*Example of Species.*
I. Alector, *Merrem*	1. Crax, *L.*	C. alecta, L. *Crested curassow*
	2. Ourax, *Cuv*	Crax panxi, L. *Cushew curassow*
	3. Penelope, *Merrem*	P. pipile, Jacq. *Piping curassow*
	4. Ortalida, *Merrem*	Catraca, Buff.
	5. Opisthocomus, *Hofmans*	Phasianus cristatus, L. *crested pheasant*
II. Pavo, *Lin.*	1. Pavo, prop. *Cuv.*	P. cristatus, L. *Common peacock*
	2. Lophophorus, *Tem.*	L. refulgens, Tem. *Impeyan pheasant*
III. Meleagris, *Lin.*		M. gallopavo, L. *Common turkey*
IV. Numidæ, *Lin.*		N. meleagris, L. *Guinea-fowl*
V. Phasianus, *Lin.*	1. Gallus, *L.*	Ph. gallus, L. *Common poultry*
	2. Phasianus, prop. *Cuv.*	Ph. colchicus, L. *Common pheasant*
	3. Houppifères, *Tem.*	Ph. ignitus, Sh.
	4. Tragofar, *Cuv.*	Meleagris satyrus, Lath. the *Nepaul*, or *Horned pheasant*
	5. Cryptonyx, *Tem.*	C. coronatus, Tem.

ORDER IV.—Gallinacea (*continued*).

Genus.	*Subgenus.*	*Example of Species.*
VI. Tetrao, *Lin.*	1. Tetrao, prop. *Lath.*	T. tetrix, L. *Black grous*
	2. Lagopus, *L.*	Tet. lagopus, L. *Ptarmigan*
	3. Pterocles, *Tem.*	Tet. alchata, L. *Pin-tailed grous*
	4. Francolinus, *Tem.*	Tet. francolinus, L. *Francolin partridge*
	5. Perdix, prop.	Tet. cinereus, L. *Common partridge*
	6. Coturnix	Tet. coturnix, L. *Quail*
	7. Colinus	Tet. California, Lath. *Californian quail*
VII. Tridactylus, *Lacép.*	1. Ortygis, *Illig.*	Hemipodius pugnax, Tem. *Fighting quail*
	2. Syrrhaptes, *Illig.*	Tet. paradoxurus, Pall. *Heteroclite grous*
VIII. Tinamus, *Lath.*	1. Pezus, *Spix*	Tet. major, Gm.
	2. Tinamus, *Spix*	T. inambui, Azz.
	3. Rhyncotus, *Spix*	T. rufescens, Tem.
IX. Columba, *Lin.*	1. Columbo-gallina, *Vaill.*	C. carunculata, Tem. *Carunculated pigeon*
	2. Columba, prop. *Vaill.*	C. turtur, L. *Turtle-dove*
	3. Virago, *Cuv.*	Col. Australis, Lath. *Madagascar pigeon*

ORDER V.—Grallæ.

These are generally long-legged wading birds, for the most part living in the vicinity of water, if we except the ostrich and cassowary, which indeed did not originally belong to this order, as established by Linnæus. Cuvier divides the entire order into five families, which we shall indicate by braces, and three distinct genera, which cannot well be reduced to any of the five families, and which he seems to think may almost be looked on as constituting little families in themselves. The families he has named are, 1. *Brevipennes,* containing genera i. and ii.; 2. *Pressirostres,* containing genera iii—viii.; 3. *Cultrirostres,* containing genera ix—xviii.; 4. *Longirostres,* containing genera xix. and xx.; and, 5. *Macrodactyli,* containing genera xxi—xxiv.; after which come the three detached and concluding genera.

Family.	*Genus.*	*Example of Species.*
I. Brevipennes.	I. Struthio, *L.*	S. camelus, L. the *Ostrich*
	II. Casuarius, *Briss.*	Struth. casuarius, L. the *Cassowary*

ORDER V.—GRALLÆ (*continued*).

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
II. PRESSIROSTRES.	III. Otis, *L.*		Otis tarda, L. the *Great buzzard*
	IV. Charadrius, *L.*	1. Œdicnemus, *Tem.*	Œd. crepitans, Tem. *Thick-kneed buzzard*
		2. Charadrius, prop. *Cuv.*	Ch. pluvialis, L. the *Golden plover*
	V. Tringa, *L.*	1. Squatarola, *Cuv.*	Tringa helvetica, L. the *Sand piper*
		2. Vanellus, *Cuv.*	Tringa vanellus, L. the *Lapwing*
	VI. Hæmatopus, *L.*		H. ostralegus, L. *Pied oystercatcher*
	VII. Tachydromus, *Ill.*		Charadrius Gallicus, L. *Common courser*
	VIII. Dicholophus, *Ill.*		Palamedea cristata, Gm.
III. CULTRIROSTRES.	IX. Grus, *Cuv.*	1. Psophia, *L.*	Ps. crepitans, L. *Gold-breasted trumpeter*
		2. Grus, prop. *Cuv.*	Ardea grus, L. *Common crane*
		3. Eurypyga, *Illig.*	Ardea helias, L. *Sun-bird*
	X. Cancroma, *L.*		C. cochlearia, L. the *Boat-bill*
	XI. Ardea, *Cuv.*	1. Ardea, prop, *Cuv.*	A. major, L. the *Common heron*
		2. Onores, *Cuv.*	Ard. tigrina, L. *Tiger bittern*
		3. Aigrettes, *Cuv.*	Ard. alba, L. *Great egret*
		4. Bostaurus, *L.*	Ard. stellaris, L. *European bittern*
		5. Bihoreaux, *Cuv.*	Ard. nycticorax, L. the *Night heron*
	XII. Ciconia, *Cuv.*		Ard. ciconia, L. the *White stork*
	XIII. Mycteria, *L.*		M. Americana, L. *American jabiru*
	XIV. Scopus, *Briss.*		S. umbretta, L. *Tufted umbre*
	XV. Anastomus, *Ill.*		Ard. ponticeriana, Gm.
	XVI. Dromas, *Paykull*		D. ardeola, Payk. *Abyssinian erodyla*
	XVII. Tantalus, *L.*		T. loculator, L. *Wood ibis*
	XVIII. Platalea, *L.*		P. leucorodia, Gm. *White spoonbill*
IV. LONGIROSTRES.	XIX. Scolopax, *L.*	1. Ibis, *Cuv.*	I. religiosa, Cuv. the *Sacred ibis*
		2. Numenius, *Cuv.*	Scolopax arcuata, L. the *Curlew*
		3. Scolopax, prop. *Cuv.*	S. rusticola, L. the *Woodcock*
		4. Rhynchæa, *Cuv.*	Sc. capensis, Gm. the *Cape snipe*
		5. Limosa, *Bechst.*	S. leucophæa, Lath. *Common godwit*
		6. Tringa, *Tem*	T. grisea, Lath. the *Grizzled sandpiper*
		7. Arenaria, *Bechst.*	Charadrius caladris, Gm. the *Sanderling*
		8. Pelidna, *Cuv.*	Fringa cinclus, L. *Common sea-lark*

ORDER V.—GRALLÆ *(continued).*

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
IV. LONGIROSTRES. *(cont.)*	XIX. Scolopax, *L.* *(cont.)* ...	9. Falcinellus	Scol. pygmæa, L.
		10. Machetes, *Cuv*...	Tringa pugnax, L. *Ruff sandpiper*
		11. Eurynorhynchus, *Wils*.........	Platalea pygmæa, L. *Dwarf spoonbill*
		12. Phalaropus, *Briss*..	Tringa lobata, L.
		13. Strepsilas, *Ill.* ..	Tr. interpres, L. the *Turnstone*
		14. Totanus, *Cuv.* ..	Scolop. glottis, L. *Greenshanked snipe*
		15. Lobipes, *Cuv*.	Tringa hyperboræa, L.
		16. Himantopus, *Briss.*	Charadrius himantopus, L. *Long-legged plover*
	XX. Recurvirostra, *L*........		R. Americana, Lath. *American avocet*
V. MACRODACTYLI.	XXI. Parra, *L*.................		P. jacana, L. the *Jacana*
	XXII. Palamedea, *L*..	1. Palamedea, prop. *Cuv.*	P. cornuta, L. *Horned screamer*
		2. Chaia, *Azz*......	Parra chavaria, L. *Faithful jacana*
		3. Megapodius	M. duperrey, Less. & Garn.
	XXIII. Rallus, *L*.		R. aquaticus, L. *Water rail*
	XXIV. Fulica, *L*....	1. Gallinula, *Briss.* & *Lath*.........	Ful. chloropus, L. *Common water-hen*
		2. Porphyrio, *Briss*..	Ful. porphyrio, L. *Purple gallinule*
		3. Fulica, prop. *Briss*..	F. atra, L. the *Coot*
	XXV. Vaginalis, *Lath*.		V. chionis, Lath. *White sheath-bill*
	XXVI. Glareola, *Gm*...........		G. pratincola, Leach. the *Pratincole*
	XXVII. Phœnicopterus, *L*.........		Ph. ruber, L. *Red flamingo*

ORDER VI.—PALMIPEDES.

This order contains generally such birds as are web-footed, and fitted for an aquatic life. It is divided into four natural families; 1. the *Brachyptera*, or Divers; 2. the *Longipennes*, or High-flying birds; 3. the *Totipalmes*, in which the thumb, as well as the other toes, is included in the common web or membrane of the foot; and, 4. the *Lamellirostres*, which have the bill furnished with rows of laminæ, resembling fine teeth.

ORDER VI.—PALMIPEDES.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. BRACHYPTERA.	I. Colymbus, *L.*	1. Colymbus, prop. *Briss.*	C. cristatus, Gm. *Crested grebe*
		2. Heliornis, *Bormat.*	H. Senegalensis, Vieill. *African coot-grebe*
		3. Mergus, *Briss.*	Col. glacialis, L. *Northern diver*
		4. Uria, *Briss.* & *Ill.*	Col. troile, L. *Foolish guillemot*
		5. Cephus	Col. minor, L. *Little grebe*
	II. Alca, *L.*	1. Fratercula, *Briss.*	Alca arctica, L. *Puffin*
		2. Alea, prop. *Cuv.*	A. torda & pica, L. *Common penguin*
	III. Aptenodytes, *Forst*	1. Aptenodytes, prop. *Cuv.*	Ap. Patagonica, Gm. *Patagonian penguin*
		2. Catarrhactes, *Briss.*	Apt. chrysocoma, Gm. *Crested penguin*
		3. Spheniscus, *Briss.*	Apt. demersa, Gm. *Cape penguin*
II. LONGIPENNES.	IV. Procellaria, *L.*	1. Procellaria, prop. *Cuv.*	P. pelagica, Br. *Stormy petrel*
		2. Puffinis, *Briss.*	Proc. Anglorum, Tem. *Manks petrel*
		3. Halodroma, *Illig.*	Proc. minatrix, Gm. *Diving petrel*
		4. Pachyptila, *Illig.*	Proc. vittata, Forst. *Broad-billed petrel*
	V. Diomedea, *L.*		D. exulans, L. *Wandering albatross*, or *Man-of-war bird*
	VI. Larus, *L.*	1. Goëland, *Buff.*	Larus marinus, Gm. *Black-headed gull*
		2. Monette, *Buff.*	Lar. cyanorhynchus, Meyer, *Common gull*
		3. Lestris, *Illig.*	Lar. parasitacus, Gm. *Arctic gull*
	VII. Sterna, *L.*	1. Sterna, prop. *Cuv.*	St. hirundo, L. *Great tern*
		2. Noddis, *Cuv.*	St. stolida, L. the *Noddy*
	VIII. Rhynchops, *L.*		R. nigra, L. *Black skimmer*, or *Cut-water*
III. TOTIPALMES.	IX. Pelecanus, *L.*	1. Onocrotalus, *Briss.*	Pel. onocrotalus, L. *Common pelican*
		2. Carbo, *Meyer*	Pel. carbo, L. the *Cormorant*
		3. Tachypetes, *Vieill.*	Pcl. aquilus, L. *Great frigate-bird*
		4. Sula, *Briss.*	Pel. sula, L. the *Booby*
	X. Plotus, *L.*		Pl. melanogaster, L. *Black-bellied darter*
	XI. Phaeton, *L.*		Ph. œthereus, Gm. *Tropic-bird*
IV. LAMELLIROSTRES.	XII. Anas, *L.*	1. Cygnus, *Meyer*	Anas olor, L. *Tame* or *Mute swan*
		2. Anser, *Briss.*	An. anser, L. *Common goose*
		3. Leucopsis, *Bechst.*	An. leucopsis, Bechst. *Bernacle*
		4. Cereopsis, *Lath.*	Cer. cinereus, Lath. *New Holland cereopsis*

ORDER VI.—PALMIPEDES *(continued)*.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
IV. LAMELLIROSTRES.	XII. Anas, (*cont.*).	5. Oidemia, *Flem.*	An. nigra, L. *Scoter duck*
		6. Clangula, *Leach*	An. histrionica, L. *Harlequin duck*
		7. Somateria, *Leach.*	An. mollissima, L. *Eider goose*
		8. Fuligula, *Leach*	An. ferina, L. *Pochard duck*
		9. Rhynchaspis, *Leach.*	An. clypeata, L. the *Shoveler*
		10. Tadoma, *Bel.*	An. tadoma, L. the *Shieldrake*
	XIII. Mergus, *L.*		M. merganser, L. the *Goosander*

Note.—The great genus *Anas* is primarily divided into three subgenera: swans, geese, and ducks; which we have indicated by interior braces; the swans forming only one subgenus, but the geese and ducks several. The last subgenus, *tadoma*, is still further subdivided, and made to contain the Muscovy duck, the mallard, the teal, &c.; but our limits prevent us entering into such minute details.

VERTEBRATA.

CLASS III.—REPTILIA.

Reptiles are divided into four sufficiently natural orders; the Chelonian, Saurian, Ophidian, and Batrachian, severally represented by the Tortoise, the Lizard, the Serpent, and the Frog. The last of these is remarkable for presenting in early life a structure different from that which it is to assume when adult: thus the young tadpole, it is well known, breathes by gills, and in some genera of this order the gills are never lost. An easy transition is thus formed from the class Reptiles to the subsequent class Fish.

Class.	*Order.*
Reptilia	1. Chelonia (*Tortoise kind*)
	2. Sauria (*Lizard kind*)
	3. Ophidia (*Serpent kind*)
	4. Batrachia (*Frog kind*)

ORDER I.—Chelonia.

This order contains but one genus, the Linnæan genus *Testudo*, which has been divided into five subgenera, as follow.

Genus.	*Subgenus.*	*Example of Species.*
I. Testudo, *L.*	1. Testudo, prop. *Brong.* (Land-tortoises)	T. græca, L. *Common tortoise*
	2. Emys, *Brong.* (Fresh-water tortoises)	Test. orbicularis, L. *Speckled tortoise*
	3. Chelonia, *Brong.* (Sea-tortoises, *or* turtles)	Test. mydas, L. *Green turtle*
	4. Chelys, *Dumer.* (Frog-mouthed tortoises)	Test. fimbriata, Gm. *Fimbriated tortoise*
	5. Trionyx, *Geoff.* (Soft tortoises)	Test. triunguis, Forsk. *Soft tortoise of the Nile.*

ORDER II.—Sauria.

From the considerable differences existing between animals possessing the general characters of this order, it has been found necessary to divide it into six families, represented severally by the Crocodiles, Monitors, Iguanas, Geckos, Cameleons, and Skinks; of these families, the first and fifth have each only one genus, the second two, and the others have several genera.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. Crocodiliens.	I. Crocodilus, *Br.*	1. Gavial, *Cuv.*	Lacerta Gangetica, Gm. *Gavial of the Ganges*
		2. Crocodilus, prop. *Cuv.*	Lacert. crocodilus, L. *Common crocodile*
		3. Alligator, *Cuv.*	Crocod. sclerops, Schn. *Spectacled cayman*
II. Lacertiens.	I. Monitor	1. Monitor, prop. *Cuv.*	Lacerta Nilotica, L. *Monitor of the Nile*
		2. Ameïva, *Cuv.*	Lac. ameïva, L.
	II. Lacerta	1. Lacerta, prop. *Cuv.*	L. ocellata, Daud. *Great green lizard*
		2. Algyra, *Cuv.*	Lac. alegyra. L.
		3. Tachydromus, *Daud.*	T. sexlineatus, Daud. *Chinese fleet lizard*
III. Iguaniens.	I. Stellio, *Cuv.*	1. Cordylus, *Gronov.*	Lac. cordylus, L.
		2. Stellio, prop. *Daud.*	Lac. stellio, L. *Levant lizard*
		3. Doryphorus, *Cuv.*	Stellio brevicaudatus, Seb.
		4. Uromastix, *Cuv.*	Stell. spinipes, Daud. *Egyptian whip-tail*
	II. Agama, *Daud.*	1. Agama, prop. *Cuv.*	A. barbata, C. *Ocellated agama of New Holland*
		2. Tapayus, *Cuv.*	Lacert. orbicularis, L. *Tapayaxin of Mexico*
		3. Trapelus, *Cuv.*	T. Ægyptius, Geoff.
		4. Lecolepis, *Cuv.*	L. guttatus, Cuv.
		5. Tropidolepis, *Cuv.*	Ag. undulata, Daud.
		6. Leposoma, *Spix*	L. tropidosaurus, Boié
		7. Calotes, *Cuv.*	Lac. calotes, L.
		8. Lophyrus, *Dumer.*	Agam. gigantea, Kuhl. *Lizard with forked helmet*
		9. Gonocephalus, *Kanp.*	
		10. Lyriocephalus, *Merrem.*	L. margaritaceus, Mer.
		11. Brachylophus, *Cuv.*	Iguane à bandes, Brong. *Banded iguana*
		12. Physignathus, *Cuv.*	P. coccineus, Cuv.
	III. Istiurus, *Cuv*		Lacert. amboinensis, Gm. the *Crest-bearer*
	IV. Draco, *L.*	1. Draco, prop. *Cuv.*	D. viridis, Daud. *Green dragon*
		2. Sitana, *Cuv.*	S. ponticeriana, Cuv. *Pondicherry sitana*
		3.? Pterodactylus, *Cuv.*	Fossil pterodactylus, Cuv.

ORDER II.—SAURIA *(continued)*.

Family.	*Genus.*	*Example of Species.*
III. IGUANIENS *(continued)*.	V. Iguana, prop. *Cuv.*	Lac. Iguana, L. *Common American iguana*
	VI. Opryessa, *Boié*	Lac. superciliosa, L.
	VII. Basiliscus, *Daud.*	Lac. basiliscus, L. *Guiana basilisk*
	VIII. Polychrus, *Cuv.*	Lac. marmorata, L.
	IX. Ecphimotes, *Fitzing*	Agama tuberculata, Spix
	X. Oplurus, *Cuv.*	O. torquatus, Cuv. *Black-collared quetzpaleo of Brazil*
	XI. Anolius, *Cuv.*	An. velifer, Cuv. *Great crested anolis.*

Of the *Iguaniens*, genera i—iv. have no palatine teeth; genera v—xi. have. This gives rise to two sections, indicated by the interior braces. To the last section would belong the fossil animal of Maëstricht called *Mososaurus.*

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
IV. GECKOTIENS.	I. Gecko, *Daud.*	1. Platydactylus	Lacert. facetanus, Aldrov. *Wall gecko*
		2. Hemidactylus	Geck. verruculatus, Cuv. *Warty gecko*
		3. Thecadactylus	Geck. lævis, D. *Smooth gecko*
		4. Ptyo-dactylus	Lacert. gecko, Hasselq. *House gecko*
		5. Spheriodactylus	Lacert. sputator, Sparm. *Banded gecko*
	II. Stenodactylus, *Cuv*		S. guttatus, Geoff.
	III. Gymnodactylus, *Spix*		G. geckoides, Spix
	IV. Phyllurus, *Cuv.*		Stellio phyllurus, Schn.
V. CAMÉLÉONIENS.	I. Chamæleo		Lacerta Africana, Gm. *Common cameleon*
VI. SINCOÏDIENS.	I. Scincus, *Daud.*	1. Scincus, prop. *Cuv.*	Lacerta scincus, L. *Officinal skink*
		2. Tiliqua, *Gray*	Sc. ocellatus, Schn. *Eyed galley-wasp*
	II. Seps, *Daud.*		S. scincoides, Cuv.
	III. Bipes, *Lacép.*		Lac. bipes, Gm. *Two-footed lizard*
	IV. Chalcides, *Daud.*		Lac. tetradactyla, Lacép.
	V. Chirotes, *Cuv.*		Lac. lumbrocoïdes, Sh. *Worm-shaped lizard.*

The five subgenera of the genus Gecko all agree in having the toes wide and dilated; the Stenodactyli and Gymnodactyli want this character, and are therefore placed as separate genera. To the preceding family, the Iguaniens, belong the Geosurus, Negulosaurus, Iguanodon, and many other fossil animals.

ORDER III.—OPHIDIA.

This order is primarily divided into three families: 1. the Snakes, *Anguis;* 2. the true Serpents; and, 3. the naked Serpents. Of these, the 1st and 3d contain each but one genus; the 2d contains all the rest, and, as these differ in several respects, is subdivided, 1st, into two tribes, the *Double-marcheurs*, that is, those that move with either end foremost, and the Serpents proper, which always advance with the head in front. The Serpents proper are then divided according as they are non-venomous or venomous; and afterwards these latter according as they have isolated fangs, or fangs accompanied by the ordinary jaw teeth. Finally come the division into genera, subgenera, and species; but of all these our plan and limits will only permit us to notice the families, genera, and subgenera, illustrating as usual with a specific example of each.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. ANGUIS.	I. Anguis, *L*..	1. Pseudopus, *Merrem*..	Lacerta apoda, Pall.
		2. Ophisaurus, *Daud*.	Ang. ventralis, L. *Glass serpent*
		3. Anguis, prop. *Cuv*.	A. fragilis, L. *Common blind worm*
		4. Acontias	Ang. meleagris, L. *Javelin snake*, or *Cape pintado snake*
II. TRUE SERPENTS.	I. Amphisbæna, *L*.		Amph. alba, Lacép.
	II. Typhlops, *Schn*..............		T. braminus, Cuv.
	III. Tortrix, *Oppel*.		Anguis scytale, L. *Whiplash snake*
	IV. Uropeltis, *Cuv*.		U. Ceylanicus, Cuv.
	V. Boa, *L*..	1. Boa, prop. *Cuv*..	B. constrictor, L. the *Boa constrictor*
		2. Scytale, *Mer*......	S. coronata, Merr.
		3. Erix	E. anguiformis, Schn.
		4. Erpetus, *Lacép*....	E. tentaculatus, Lac.
	VI. Coluber, *L*.	1. Python, *Daud*. ..	Col. Javanicus, Sh. *Great adder of the Sunda Isles*
		2. Cerberus, *Cuv*.	Col. cerberus, Daud.
		3. Xenopeltis, *Reinw*..	X. concolor, Reinw.
		4. Heterodon, *Beauv*.	H. nigricans, Beauv. *Blackish pig-nosed serpent*
		5. Hurria, *Daud*. ..	Col. hurriah, Russ. the *Hurriah of Bengal*
		6. Bunjanus, *Oppel*...	Col. bucephalus, Sh.
		7. Dendrophis, *Fitzing*	Col. decorus, Sh.
		8. Dryinus, *Merrem*.	Col. nasutus, Russ. *Sharp-nosed adder*
		9. Dryophis, *Fitzing*..	Col. fulgidus. Daud.
		10. Oligodon, *Boié*..	Col. punctatus, Lat. *Spotted adder*
		11. Coluber, prop. *Cuv*.	Col. natrix, L. the *Collared adder*

ORDER III.—Ophidia (*continued*).

Family.	*Genus.*	*Subgenus.*	*Example of Species.*	
II. True Serpents (*continued*).	VI. Acrochordus, *Hornstedt*		A. Javensis, Lacép.	
	VII. Crotalus, *L.*		C. horridus, L. *American rattlesnake*	
	VIII. Trigonocephalus, *Oppel*		Col. Tisiphone, Sh. *Brown viper of Carolina*	
	IX. Vipera, *Daud.*	1. Vipera, prop. *Cuv.*	Col. berus, L. *Common viper*	
		2. Naia	Col. naia, L. the *Cobra di capello*	
		3. Elaps, *Schn.* (*in part*)	E. lemniscatus, Cuv.	
		4. Microuros, *Wagler*	M. Spixii, Wayler	
		5. Platouros, *Lat.*	Col. laticaudatus, L.	
		6. Trimeresouros, *Lacép.*	T. leptocephalus, Lacép.	
		7. Oplocephalus, *Cuv.*	O. Cuvieri, Gray	
		8. Acanthophis, *Daud.*	A. cerastinus, Daud. *Horned viper*	
		9. Echis, *Merrem.*	Boa horatta, Sh.	
		10. Langaha, *Brugniéres*	L. Madagascariensis, Lacép.	
	X. Bungarus, *Daud.* (*in part*)		Boa. fasciata, Schn. the *Ringed bungarum-pamma of Bengal*	
	XI. Hydrus, *Schn.* (*in part*	1. Hydrophis, *Daud.*	Hydrus curtus, Sh.	*Water Serpents.*
		2. Pelamides, *Daud.*	Hydrus bicolor, Schn.	
		3. Chersydrus, *Cuv.*	Hydrus granulatus, Schn.	
III. Naked Serpents	I. Cæcilia, *L.*		Cæc. annulata, Spix, *Annulated cæcilia.*	

ORDER IV.—Batrachia.

This order is divided by Mr. Gray (see Synopsis at the end of our ninth volume) into two very natural orders or families, according as they do or do not undergo metamorphosis. Cuvier has indicated the same division, and has then proceeded to subdivide them as follows:—

Genus.	*Subgenus.*	*Example of Species.*
I. Rana, *L.*	1. Rana, prop. *Laurenti*	R. temporaria, L. *Common frog*
	2. Ceratophris, *Boié*	Rana cornuta, Seb. *Horned frog*
	3. Dactylethra, *Cuv.*	Pipa lævis, Merrem.
	4. Hyla, *Laurenti*	Ran. arborea, L. *Tree frog*
	5. Bufo, *Laurenti*	Ran. bufo, L. *Common toad*
	6. Bombinator, *Merrem.*	Ran. bombina, Gm. *Yellow-bellied toad*
	7. Oxyrhynchus, *Spix*	Bufo proboscideus, Spix, *Long-nosed toad*

ORDER IV.—Batrachia (*continued*).

Genus.	*Subgenus.*	*Example of Species.*
I. Rana, *L.* (*cont.*)	8. Otilophus, *Cuv.*	Rana margaritifera, L. *Pearled toad*
	9. Breviceps, *Merr.*	Bufo gibbosus, Seb.
	10. Pipa, *Laurenti*	Rana pipa, L. the *Surinam toad*
II. Salamandra, *Brougn.*	1. S. prop. *Laurenti* (Land Salamanders)	Lacerta salamandra, L. *Common salamander*
	2. Triton, *Laurenti* (Water salamanders)	Salamand. marmorata, L. *Marbled salamander*
III. Menopoma, *Harlan*		Sal. gigantea, Barton, *Great salamander of N. America*
IV. Amphiuma, *Garden*		A. tridactylum, Cuv.
V. Axolotl		Siren pisciformis, Sh. the *Axolotl of Mexico*
VI. Menobranchus, *Harlan*		M. lateralis, Harl.
VII. Proteus, *Laurenti*		P. anguinus, Laur. the *Proteus of Carniola*
VIII. Siren, *L.*		S. lacertina, L. the *Lacertine siren.*

VERTEBRATA.

CLASS IV.—PISCES.

This class is divided into two great series, the Ossei and Chondropterygii; in the former of which the skeleton is formed of true bone, while in the latter it always remains in the state of cartilage or gristle. The former is divided into six, the latter into two orders; the principal characters being derived from the first gills, as the names of the orders will show.

Class.	*Series.*	*Order.*
Pisces	Ossei (*Bony fishes*)	1. Acanthopterygii
		2. Malacopterygii Abdominales
		3. Malacopterygii Subbrachii
		4, Malacopterygii Apodes
		5. Lophobranchii
		6. Plectognathi
	II. Chondropterygii (*Cartilaginous fishes*)	7. Eleutherobranchii (*gills free*)
		8. Pectobranchii (*gills confined*)

SERIES I.—OSSEI.

ORDER I.—Acanthopterygii.

The Acanthopterygians make three-fourths of all the fishes known, and are the most perfectly wrought type of the class. The families into which they are divided are in general very natural, but present so many varieties with respect to those characters on which it might be supposed they could be grouped into orders or other subdivisions, that it has been found expedient to leave them all together.

ORDER I.—ACANTHOPTERYGII.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. PERCOÏDES.	I. Perca, *Cuv*		P. fluvialis, L. *Common perch*
	II. Labrax, *Cuv*		Perca labrax, L. the *Basse*
	III. Lates, *Cuv.*		Perca Nilotica, L. the *Variole of the Nile*
	IV. Centropomus, *Lacép.*		C. undecimalis, Cuv.
	V. Grammistes, *Cuv*		G. orientalis, Bl.
	VI. Aspro, *Cuv.*	1. Aspro, prop.	Perca asper, L. the *Rhone perch*
		2. Huro, *Cuv. & Val.*	H. nigricans, C. & V.
		3. Etelis, *Cuv. & Val.*	E. carbunculus, C. & V.
		4. Niphon, *Cuv. & Val.*	N. spinosus, C. & V.
		5. Enoplœsus, *Lacép.*	E. armatus, Lacép.
		6. Diploprion, *Kuhl.*	D. bifasciatum, Kuhl.
	VII. Apogon, *Cuv.*	1. Apogon, prop. *Lacép.*	Mullus imberbis, L. *King of the mullets*
		2. Cheilodipterus, *Lacép.*	Perca lineata, Forsk.
		3. Pomatomus, *Risso*	P. telescope, Risso
	VIII. Ambassis, *Commers*		A. Commersonii, C. & V.
	IX. Lucio-perca, *Cuv*		Perca lucioperca, L. the *Pike-perch*
	X. Serranus, *Cuv*	1. Serranus, prop.	Perca scriba, L. the *Sea-perch*
		2. Anthias, *Bl.* (*in part*)	A. sacer, Bl. the *Barber*
		3. Merou, Cuv.	Perca gigas, Gm.
	XI. Plectropoma, *Cuv.*		Pl. melanoleucum, Cuv.
	XII. Diacope, *Cuv*		D. sebæ, Cuv.
	XIII. Mesoprion, *Cuv.*		M. unimaculatus, Russel
	XIV. Acerina, *Cuv*		Perca cernua, L. the *Ruffe*
	XV. Rypticus, *Cuv*		Anthias saponaceus, Bl. the *Soap-maker*
	XVI. Polyprion, *Cuv*		P. cernuum, Valenc.
	XVII. Centropristis, *Cuv.*		C. nigricans, Cuv. *Black basse, or Black ham*
	XVIII. Grystes, *Cuv*		Cichla variabilis, Lesueur, *New York growler*
	XIX. Cirrhites, *Commers.*		C. maculatus, Lacép.
	XX. Chironemus, *Cuv*		C. georgianus, Cuv. & Val.
	XXI. Pomotis, *Cuv.*		P. vulgaris, Cuv. *Pond perch*
	XXII. Centrarchus, *Cuv*		C. æneus, Cuv.
	XXIII. Priacanthus, *Cuv.*		Anthias boops, Bloch
	XXIV. Dules, *Cuv*		
	XXV. Therapon, *Cuv*	1. Therapon, prop.	Holocentrus servus, Bl.
		2. Datnia, *Cuv. & Val.*	Coius datnia, Buch.
	XXVI. Pelates, *Cuv*		P. 5-lineatus, Cuv. & Val.
	XXVII. Helotes, *Cuv*		H. 6-lineatus, Cuv. & Val.
	XXVIII. Trichodon, *Steller*		T. stelleri, Cuv.
	XXIX. Sillago, *Cuv.*		S. domina, Cuv. *Lady-fish of Pondicherry*

ORDER I.—ACANTHOPTERYGII (*continued*).

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. PERCOÏDES (*continued*).	XXX. Holocentrum, *Artedi*		H. longipinne, Cuv. *Long-finned red-man of St. Thomas's Island*
	XXXI. Myripristis, *Cuv*		M. Japonicus, Cuv. & Val.
	XXXII. Beryx, *Cuv.*		B. decadactylus, Cuv. & Val.
	XXXIII. Trachicthys, *Shaw*		T. Australis, Sh. *New Holland rough-fish*
	XXXIV. Trachinus, *Lin*		T. draco, L. the *Weaver*
	XXXV. Percis, *Bl.*		P. maculata, Bl.
	XXXVI. Pinguipes, *Cuv.*		P. Brasilianus, Cuv. & Val. *Brazil fat-fin*
	XXXVII. Percophis, *Cuv.*		P. Brasilianus, Cuv. & Val.
	XXXVIII. Uranoscopus, *Lin*		U. scaber, L. the *Uranoscopus*
	XXXIX. Polynemus, *Lin.*		P. paradisæus, L. the *Mango-fish*
	XL. Sphyræna, *Bl.*		Sp. barracuda, Cuv.
	XLI. Paralepis, *Cuv.*		Coregonus paralepis, Riss.
	XLII. Mullus, *Lin.*	1. Mullus, prop. *Cuv.*	M. barbatus, L. *Red mullet*
		2. Upeneus, *Cuv.*	M. vittatus, Forsk. *Striped mullet*
II. MAILED CHEEKS.	I. Trigla, *L.*	1. Trigla, prop. *Cuv.*	Tr. hirundo, L. *Sapphirine gurnard*
		2. Prionotes, *Lacép.*	Tr. punctata, Bl. *Spotted gurnard*
		3. Peristedion, *Lacép.*	Tr. cataphracta, L. *Mailed gurnard*
		4. Dactylopterus *Lacép.*	Tr. volitans, L. *Flying gurnard*
	II. Cephalocanthus, *Lacép.*		Gasterosteus spinarella, L.
	III. Cottus, *Lin.*	1. Cottus, prop. *Cuv.*	C. gobio, L. *Miller's thumb*
		2. Aspidophorus, *Lacép.*	Cott. cataphractus, L. *Armed bull-head*
	IV. Hemitripterus, *Cuv.*		Cott. tripterygius, Bl. *Sea-raven*
	V. Hemilepidotus, *Cuv.*		Cott. hemilepidotus, Tiles
	VI. Platycephalus, *Bl.*		Cott. insidiator, L.
	VII. Scorpæna, *Lin.*	1. Scorpæna prop. *Cuv.*	S. scrofa, L. *Great sea-devil*
		2. Sebastes, *Cuv.*	Perca Norvegica, Müll. the *Marulke of Norway*
		3. Pteroïs, *Cuv.*	Scorp. volitans, L. *Gini-maha,* or *Great fire of Ceylon*
	VIII. Blepsias		Blennius villosus, Stell.
	IX. Apistes		Ap. alatus, Cuv.
	X. Agriopus		Blennius torvus, Gronov.
	XI. Pelorus		Scorpœna didactyla, Pall.
	XII. Synanceia, *Bl.*		Scorp. horrida, Lin.
	XIII. Monocentris, *Bl.*		M. Japonica, Bl.

ORDER I.—Acanthopterygii (*continued*).

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
II. Mailed Cheeks.	XIV. Gasterosteus	1. Gasterosteus, prop. *Cuv*	G. aculeatus, L. *Great stickleback*
		2. Gaster, *Cuv*	Gaster. spinochia, L. *Sea stickleback*
	XV. Oreosoma, *Cuv.*		O. Atlanticum, Cuv.
III. Scienoïdes.	I. Sciæna	1. Sciæna, prop. *Cuv.*	S. umbra, Cuv. the *Maigre of the Mediterranean*
		2. Otolithus, *Cuv.*	O. ruber, Cuv. *Stone-fish of Pondicherry*
		3. Ancylodon	Lonchurus ancylodon, Bloch
		4. Corvina, *Cuv.*	Sciæna nigra, Lin. *Raven fish*
		5. Johnius, *Bl.*	J. maculatus, Bl. *Bengal whiting*
		6. Umbrina, *Cuv*	Sciæna cirrhosa, L. *Bearded sciæna*
		7. Lonchurus, *Bl.*	L. barbatus, Bl.
		8. Pogonias, *Lacép.*	Labrus grunniens, Mitch. the *Drum*
	II. Eques, *Bl.*		Eq. Americanus, Bl.
	III. Hæmulon, *Cuv*		H. formosum, Cuv. the *Grunt*, or *Red-throat*
	IV. Pristipoma, *Cuv.*		P. husta, Cuv.
	V. Diagramma, *Cuv*		Lutjanus luteus, Bl.
	VI. Lobotes, *Cuv*		Bodianus triurus, Mitch. *Triple-tailed black perch*
	VII. Cheilodactylus, *Lacép.*		Ch. fasciatus, Lacép.
	VIII. Scolopsides, *Cuv*		Anthias Japonicus, Bl.
	IX. Micropterus, *Lacép*		M. dolomica, Lacép.
	X. Amphiprion, *Bl.*		Amph. ephippium, Bl.
	XI. Premnas, *Cuv.*		Chætodon biaculeatus, Bl.
	XII. Pomocentrus, *Lacép.*		Chætodon pavo, Bl.
	XIII. Dascyllus, *Cuv*		Chætodon araunus, Lin.
	XIV. Glyphisodon, *Lacép*		Chætodon saxatilis, Lin.
	XV. Heliasus		H. insolatus, Cuv.
IV. Sparoïdes.	I. Sargus, *Cuv*		Sparus ovis, Mitch. the *Sheep's head*
	II. Chrysophris, *Cuv.*		Sparus aurata, L. *Gilt-head of Pennant*
	III. Pagrus		Sparus pagrus, L.
	IV. Pagellus		Sparus erythrinus, L.
	V. Dentex, *Cuv.*		Sparus dentex, L.
	VI. Pentapus, *Cuv.*		Sparus vittatus, Bl.
	VII. Lethrinus, *Cuv.*		Sparus chærorhyncus, Bl.
	VIII. Cantharus, *Cuv*		Sparus cantharus, Lin.
	IX. Boops, *Cuv.*		Sparus boops, Lin.
	X. Oblada, *Cuv.*		Sparus melanurus, Lin.

ORDER I.—Acanthopterygii (*continued*).

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
V. Mænides.	I. Mæna, *Cuv*		Sparus mæna, Lin.
	II. Smaris, *Cuv.*		S. alcedo, Riss. the *Kingfisher of Nice*
	III. Cæsio, *Lacép.*		C. smaris, Cuv.
	IV. Gerrus, *Cuv*		G. Brasilianus, Cuv.
VI. Squamipennes.	I. Chætodon, *L.*	1. Chætodon, prop. *Cuv.*	Ch. striatus, L. *Zebra fish*
		2. Chelmon, *Cuv*	Chætodon rostratus, L.
		3. Heniochus	Chætodon acuminatus, L.
		4. Ephippus	Chætodon faber, Brouss. *Pilot-fish of Sloane*
		5. Taurichthys	T. varius, Cuv. *Buffalo-fish*
		6. Holocanthus, *Lacép.*	H. tricolor, Bl. the *Widow-coquette*
		7. Pomacanthus	Chætodon aureus, Bl.
		8. Platax	Chætodon vespertilio, Bl.
	II. Psettus, *Commers*		Chætodon rhombeus, Bl.
	III. Pimelepterus, *Lacép.*		Xyster nigrescens, Lacép.
	IV. Dipterodon		D. capensis, Cuv.
	V. Brama, *Bl.*		Sparus raii, Bl. *Lesser sea-bream of Pennant*
	VI. Pempheris, *Cuv.*		Sparus argenteus, White
	VII. Toxotes, *Cuv*		Labrus jaculator, Sh. the *Archer*
VII. Scomberoïdes.	I. Scomber	1. Scomber, prop. *Cuv.*	S. scombrus, Lin. the *Mackerel*
		2. Thynnus, *Cuv*	Scomber thynnus, Lin. the *Tunny*
		3. Orycnus, *Cuv*	Scomb. alalonga, Gm. *Man-of-war*
		4. Anxis, *Cuv*	Scomb. bisus, Rafin.
		5. Sarda, *Cuv*	Scomb. sarda, Bl.
		6. Cybium, *Cuv*	C. guttatum, Cuv. *Seer-fish of Calcutta*
		7 Thyrsites	Scomb. dentatus, Bl.
		8. Gempylus	Scomb. serpens, Solander
	II. Xiphias, *Lin.*	1. Xiphias, prop. *Cuv.*	X. gladius, Lin. *Common sword-fish*
		2. Tetrapturus, *Rafin*	T. belone, Rafin. *Needle-fish*
		3. Makaira, *Lacép*	Xiphias makaira, Sh.
		4. Istiophorus, *Lacép*	Xiph. vilifer, Bl. the *Sail-fish*
	III. Centronotus, *Lac.*	1. Naucrates, *Rafin*	Scomber ductor, Bl. *Pilot-fish*
		2. Elacates	El. motta, Russel
		3. Lichia, *Cuv*	Scomber auria, Lin.
		4. Trachinotes, *Lacép*	Chætodon glaucus, Lacép.
	IV. Rhincobdella, *Bl.*	1. Macrognathes, *Lacép.*	Rhincobd. Orientalis, *Oriental leech-nose*
		2. Mastacembelus, *Gronov*	Rhincobd. Haleppensis, Bl.
	V. Campilodon, *Oth. Fabric.*		Notacanthus nasus, Bl.

ORDER I.—ACANTHOPTERYGII (*continued*).

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
VII. SCOMBEROÏDES (*continued*).	VI. Seriola, *Cuv*		Scomber lactarius, Bl. *Milk-fish of Pondicherry*
	VII. Nomeus, *Cuv.*		N. Mauritii, Cuv. the *Shepherd-fish*
	VIII. Temnodon, *Cuv.*		T. saltata, Cuv.
	IX. Caranx, *Cuv.*	1. Caranx, prop. *Cuv.*	Scomber trachurus, Lin.
		2. Carangus	Scomb. hippos, Lin. *Mackerel*
		3. Citulus	Scomb. speciosus, Lacép.
	X. Vomer	1. Olistus, *Cuv.*	O. Malabaricus, Cuv.
		2. Scyris, *Cuv*	Sc. Indica, Cuv.
		3. Blĕpharis, *Cuv.*	Bl. Indicus, Cuv.
		4. Gallus, *Cuv*	Gallichthys major, Cuv. *Sea-cock*
		5. Argyreioses	Zeus rostratus, Mitchill
		6. Vomer, prop. *Cuv.*	Zeus setapinnis, Mitchill
	XI. Zeus, *Lin.*	1. Zeus, prop. *Cuv.*	Zeus faber, Lin. the *Dory*
		2. Capros, *Lacép*	Zeus aper, Lin.
		3. Chrysostosus, *Lacép.*	Lampris guttatus, Retz.
		4. Equula, *Cuv.*	Scomber equula, Forskal
		5. Menes, *Lacép*	Zeus maculatus. Bl.
	XII. Stromateus, *Lin.*	1. Fiatola	Stromateus fiatola, Lin.
		2. Pamphlus, *Cuv.*	Strom. niger, Bl. *Black pomfret*
		3. Peprilus	P. crenulatus, Cuv.
		4. Luvarus, *Rafin.*	L. imperialis, Rafin.
	XIII. Seserinus, *Cuv*		S. rondeletii, Cuv.
	XIV. Kustus, *Bl*		K. Indicus, Bloch
	XV. Coryphæna, *Lin.*	1. Coryphæna, prop. *Cuv.*	C. hippurus, L. *Dorado* (commonly but incorrectly,) *Dolphin*
		2. Caranxomorus, *Lacép.*	Scomber pelagicus, Lin.
		3. Centrolophus, *Lacép.*	Coryphæna pompilus, L.
		4. Astrodermus, *Bonnelli*	A. guttatus, Bonnelli
		5. Oligopus, *Lacép.*	Coryphæna vilifera, Pall. the *Sail-bearer*
VIII. TÆNIOÏDES.	I. Lepidopus, *Gouan.*		L. argyreus, Cuv. *Silver garter-fish*
	II. Trichiurus, *Lin.*		T. lepturus, Lin. *Slender-tailed ribbon-fish*
	III. Gymnetrus, *Bl.*		Regaleus glesne, Ax. *King of the herrings*
	IV. Stylephorus, *Shaw*		Styl. chordatus, Sh.
	V. Cæpola, *Lin.*		C. rubescens, L. *Reddish ribbon-fish*
	VI. Lophotes, *Giorna*		L. Lacepedii, Giorna
IX. THEUTYES.	I. Sijanus, *Forsk*		S. stellatus, Forsk.
	II. Acanthurus, *Lacép*		Chætodon chirurgus, Bl. the *Surgeon*
	III. Prionurus, *Lacép*		P. microlepidotus, Lacép. *Small-scaled saw-tail*
	IV. Naseus, *Commers*		N. fronticonis, Cuv. *Unicorn of Forskal*

ORDER I.—Acanthopterygii *(continued)*.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
IX. Theutyes.	V. Axinurus, *Cuv*		A. thynnoïdes, Cuv.
	VI. Priodon, *Cuv.*		P. annularis, Cuv. *Ringed saw-tooth*
X. with Labyrinthiform Pharyngeals.	I. Anabas		A. scandens, Cuv. the *Climbing-fish*
	II. Polyacanthus, *Kuhl*		Chætodon Chinensis, Bl.
	III. Macropus, *Lacép.*		M. viridi-auratus, Lacép.
	IV. Helostoma, *Kuhl.*		H. Temminkii, Cuv.
	V. Osphromenus, *Commers.*		Osph. olfax, Commers. the *Gourami*
	VI. Trichopus		Labrus trichopterus, Gmel.
	VII. Spirobranchus, *Cuv*		Sp. capensis, Cuv.
	VIII. Ophicephalus, *Bl*		Oph. punctatus, Bl. *Spotted serpent-head*
XI. Mugiloïdes.	I. Mugil, *Lin*		M. cephalus, the *Common mullet of the Mediterranean*
	II. Tetragonurus, *Riss*		T. Cuvieri, Risso
	III. Atherina, *Lin*		Ath. presbyter, Cuv. the *Priest*
XII. Gobioides.	I. Blennius, *L.*	1. Blennius, prop. *Cuv.*	B. galerita, L. the *Blenny*
		2. Pholis, *Artedi*	Blen. pholis, L. *Smooth Blenny*
		3. Myxodes	M. ?
		4. Salarias	Bl. saliens, Com. *Leaping blenny*
		5. Clinus	Bl. argenteus, Riss. *Silver blenny*
		6. Cirrhibarbes, *Cuv.*	C. Indicus, Cuv. *Yellow blenny*
		7. Gunnellus, *Cuv.*	Bl. gunnellus, *Butter-fish*
		8. Opistognathus, *Cuv.*	O. sonnerati, Cuv.
		9. Zoarcus, *Cuv.*	Bl. viviparus, L. *Viviparous blenny*
	II. Anarrhicas, *L.*		
	III. Gobius, *L.*	1. Gobius, prop. *Lacép.*	G. niger, L. *Black goby,* or *Sea gudgeon*
		2. Gobioïdes, *Lacép.*	Gob. Broussonet, Lacép.
		3. Tænioïdes, *Lacép.*	Cœpola cœcula, Bl.
		4. Periophthalmus, *Schn.*	Gob. schlosseri, Pall.
		5. Eleotris	Gob. dormitor, Lacép. *Sleepy goby*
	IV. Callionymus, *L.*		C. lyra, L. *Yellow dragonet*
	V. Trichonotus, *Schn*		T. setigerus, Bl.
	VI. Comephorus, *Lacép*		Callionymus baicalensis, Pall.
	VII. Platypterus, *Kuhl. & V. Hass.*		P. melanocephala, K. & V. H.
	VIII. Labrax, *Pall.*		L. lagocephalus, Pall.

ORDER I.—Acanthopterygii (*continued*).

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
XIII. Pectorales Pediculées.	I. Lophius, *Lin.*	1. Lophius, prop. *Cuv.*	L. piscatorius, *Fishing frog,* or *Sea-devil*
		2. Antennarius, *Commers*	A. pictus, Cuv. *Painted sail-fish*
		3. Malthe	Loph. vespertilio, *Sea-bat*
	II. Batrachus, *Bl.*		Loph. bufo, Mitch. *American toad-fish*
XIV. Labroïdes.	I. Labrus, *Lin.*	1. Labrus, prop. *Cuv.*	L. maculatus, Bl. *Spotted old wife*
		2. Cheilinus, *Lacép.*	C. trilobatus, Lacép.
		3. Lachnolaimus, *Cuv.*	L. suillus, Cuv.
		4. Julis, *Cuv*	Labrus julis, Lin.
		5. Anampses, *Cuv.*	Labrus tetrodon, Bl.
		6. Crenilabrus	Labrus gibbus, L. *Gibbous wrasse*
		7. Coricus, *Cuv.*	C. rubescens, Risso
		8. Epiboulus, *Cuv*	Sparus insidiator, Pall.
		9. Clepticus, *Cuv.*	C. genizara, Cuv.
		10. Elops, *Commers.*	Gomphosus viridis, Cuv.
	II. Xirichthys, *Cuv*		Coryphæna novacula, L. *Razor-fish*
	III. Chromis, *Cuv.*	1. Chromus, prop.	Sparus chromis, L. *Chestnut-fish*
		2. Cychla, *Bl.*	C. saxatilis, Bl.
		3. Plesiops, *Cuv.*	P. ? Cuv.
		4. Malacanthus, *Cuv.*	Coryphæna plumieri, Lac. *Sea-peacock*
	IV. Scarus, *L.*	1. Scarus, prop. *Cuv.*	Sc. psittacus, Forsk. the *Parrot-fish*
		2. Calliodon	Scar. spinidens, Quoy & Gaym.
		3. Odax	Scar. pullus, Forster
XV. Fistulariæ.	I. Fistularia, *Lin.*	1. Fistularia, *Lacép.*	F. tabaccana, L. *Pipe-fish*
		2. Aulostoma, prop. *Lacép.*	Fist. Chinensis, Bl. *Chinese pipe-fish*
	II. Centriscus, *Lin.*	1. Centriscus, prop.	C. scolopax, L. *Sea-snipe*
		2. Amphisile, *Klein*	Cent. scutatus, *Shielded snipe*

SERIES I.—OSSEI.

ORDER II.—Malacopterygii Abdominales.

Ventral fins behind the pectorals; rays soft or articulated. There are five families.

ORDER II.—Malacopterygii Abdominales.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. Cyprinoïdes.	I. Cyprinus	1. Cyprinus, prop. *Cuv.*	C. carpio, L. the *Carp*
		2. Barbus, *Cuv.*	Cyp. barbus, L. the *Barbel*
		3. Gobio, *Cuv.*	Cyp. gobio, L. the *Gudgeon*
		4. Tinca, *Cuv.*	Cyp. tinca, L. the *Tench*
		5. Cyrrhinus, *Cuv.*	Cyp. cirrhosus, Bl.
		6. Abramis, *Cuv.*	Cyp. brama, L. the *Bream*
		7. Labeo, *Cuv.*	Cyp. Niloticus, Geoff.
		8. Catastomus, *Lesueur*	C. cyprinus, Les.
		9. Leuciscus, *Klein*	Cyp. rutilus, L. the *Roach*
		10. Chela, *Buchanan*	Cyp. cultratus, L. *Razor-carp*
		11. Gonorhynchus, *Gronov*	Cyp. gonorhynchus, Gm.
	II. Cobitis, *L.*		C. tænia, L. the *River loche*
	III. Anableps, *Bl.*		An. tetarphthalmus, Bl.
	IV. Pæcilia, *Schn.*		P. Schneideri, Val.
	V. Lebias, *Cuv.*		L. ellipsoïdea, Les.
	VI. Fundulus, *Lacép.*		F. cænicolus, Val.
	VII. Molinesia, *Les.*		M. latipinna, Les.
	VIII. Cyprinodon, *Lacép.*		Cypr. umbra, Cuv.
II. Esoces.	I. Esox, *L.*	1. Esox, prop. *Cuv.*	E. lucius, L. the *Pike*
		2. Galaxias, *Cuv.*	S. truttaceus, Cuv.
		3. Alepocephalus, *Riss.*	Al. rostratus, Risso
		4. Microstoma, *Cuv.*	Serpula microstoma, Risso
		5. Stomias, *Cuv.*	Esox boa, Riss. *Serpent-pike*
		6. Chauliodus, *Schn.*	C. Sloanii, Schn.
		7. Salanx, *Cuv.*	S. ? Cuv.
		8. Belone, *Cuv.*	Es. belone, L. *Sea-pike*, or *Garfish*
		9. Scomberesox, *Lacép.*	S. camperi, Lac. *Mackerel-pike*
		10. Hemiramphus, *Cuv.*	H. longirostris, Cuv.
	II. Exocetus, *L.*		E. volitans, Bl. *Flying fish*
	III. Mormyrus, *L.*		M. Hasselquistii, Geoff.
III Siluroïdes.	I. Silurus, *L.*	1. Silurus, prop. *Lacép.*	S ?
		2. Silurus spec. *Art.* & *Gron.*	S. glanis, L. *Seat-fish*
		3. Schilbus	S. mystus, Hasselq.
		4. Mystus, *Art.* & *Lin.*	
		5. Bagrus[1]	S. erythropterus, Bl.
		6. Pimelodus, prop.	S. 4-maculatus, Bl.
		7. Synodontis, *Cuv.*	S. clarias, Hasselq.
		8. Agenoisus, *Lacép.*	S. militaris, Bl. *Horned silure*
		9. Doras, *Lacép.*	S. castatus, L.
		10. Heterobranchus, *Geoff.*	S. anguillaris, Hasselq.
		11. Plotosus, *Lacép.*	P. cæsius, Buchan
		12. Callichthys, *Lin.*	S. callichthys, Bl. *Tomoate*
	II. Malapterurus, *Lacép*		S. electricus, L.

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[1] Bagrus and Pimelodus, prop. are divisions of the subgenus Pimelodus of Lacépède.

ORDER II.—Malacopterygii Abdominales (*continued*).

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
III. Siluroïdes.	III. Aspredo, *Lin*		S. hexadactylus, Lacép.
	IV. Loricaria, *Lin.*	1. Hypostomus, *Lacép.*	L. plecostomus, L.
		2. Loricaria, prop. *Lacép.*	L. cataphracta, L. *Cataphract*
IV. Salmones.	I. Salmo	1. Salmo, prop. *Cuv.*	S. trutta, L. *Salmon trout*
		2. Osmerus, *Arted.*	S. eperlanus, L. *Smelt*
		3. Mallotus, *Cuv.*	S. Groenlandicus, Bl. *Greenland salmon*
		4. Thymallus, *Cuv.*	S. thymallus, L. *Greyling*
		5. Coregonus, *Cuv*	C. hyemalis, Jur.
		6. Argentina, *L.*	A. sphyræna, L. *Sheppy argentine*
		7. Curimates, *Cuv*	S. edentulus, Bl.
		8. Anastomus, *Cuv.*	S. anastomus, L.
		9. Gasteropelecus, *Bl.*	G. sternicla, Bl.
		10. Piabuqu	S. argentinus, Bl.
		11. Serra-salmo, *Lacép.*	S. rhomboides, Bl.
		12. Tetragonopterus, *Arted.*	T. argenteus, Arted.
		13. Chalceus, *Cuv.*	C. angulatus, Spix
		14. Myletes, *Cuv.*	M. Duriventris, Cuv.
		15. Hydrocyon, *Cuv.*	S. falcatus, Bl.
		16. Cytharinus, *Cuv.*	C. Geoffrœi, Cuv.
		17. Saurus, *Cuv.*	S. Mexicanus, Cuv.
		18. Scopelus, *Cuv.*	S. Humbolt, Rip.
		19. Aulopus, *Cuv.*	S. balbo, Rip.
		20. Sternoptyx, *Herman*	S. diaphana, Herm.
V. Clupes.	I. Clupea, *L.*	1. Clupea, *Cuv.*	C. harengus, L. *Herring*
		2. Alosa, *Cuv.*	C. alosa, L. *Shad*
		3. Chatoessus, *Cuv.*	C. thrissa, Bl. *Sprat*
	II. Odontognathus, *Lacép.*		O. spinax, Lacép.
	III. Pristigaster, *Cuv.*		P. cayanus, Cuv.
	IV. Notopterus, *Lacép*		N. kapirat, Lacép.
	V. Engraulis, *Cuv*		Cl. encrasicholus, L. *Anchovy*
	VI. Thryssa, *Cuv*		C. setirostris, Brouss.
	VII. Megalops, *Lacép*		C. gigantea, Shaw
	VIII. Elops, *L*		Argentina machnata, Forsk.
	IX. Buterinus, *Commers.*		Cl. Brasiliensis, Bl.
	X. Chirocentrus, *Cuv.*		Esox chirocentrus, Lacép.
	XI. Hyodon, *Les*		H. clodalis, Les.
	XII. Amia, *L.*		A. calva, Lin.
	XIII. Sudis, *Cuv*		S. gigas, Spix
	XIV. Osteoglossum, *Vandeli*		O. vandelli, Cuv.
	XV. Lepisosteus, *Lacép.*		Esox osseus, L. *Greater garfish*
	XVI. Polypterus, *Geoff.*		P. Senegalus, Cuv.

SERIES I.—OSSEI.

ORDER III.—Malacopterygii Subbrachii.

Ventral fins under the pectorals.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. Gadoides.	I. Gadus, *L.*	1. Morrhua	G. morrhua, L. *Cod*
		2. Merlangus	G. merlangus, L. *Whiting*
		3. Merluccius	G. merluccius, L. *Hake*
		4. Lota, *Cuv.*	G. molua, L. *Ling*
		5. Motella, *Cuv.*	G. mustela, L. *Whistle-fish*
		6. Brosmius, *Cuv.*	G. brosmius, Gmel.
		7. Brotula, *Cuv.*	Enchelyopus barbatus, Bl. *Pout-fish*
		8. Phycis, *Arted.* & *Schn.*	P. Mediterraneus, Lar.
		9. Raniceps	G. raninus, Mull.
	II. Lepidoleprus, *Riss.*		L. cœlorhynchus, Rip.
II. Flat Fishes.	I. Pleuronectes, *L.*	1. Platessa, *Cuv.*	Pleur. flesus, L. *Flounder*
		2. Hypoglossus, *Cuv.*	Pl. hypoglossus, L. *Halibut*
		3. Rhombus, *Cuv.*	Pl. rhombus, L. *Brill*
		4. Solea, *Cuv.*	Pl. solea, L. *Sole*
		5. Monochir, *Cuv.*	Pl. macrochirus, Lar.
		6. Achirus, *Lacép.*	Pl. achirus, L.
III. Discoboles.	I. Lepadogaster, *Gouan.*	1. Lepidogaster, prop.	L. gouan, Lacép. *Lesser sucking-fish*
		2. Gobiesoces, *Lacép.*	L. dentax, Schn.
	II. Cyclopterus, *L.*	1. Lumpus	Cyclopterus lumpus, L. *Lump-fish*
		2. Liparis, *Arted.*	C. liparis, *Sea snail*
	III. Echeneis, *L.*		E. remora, L. *Sucking-fish*

SERIES I.—OSSEI.

ORDER IV.—Malacopterygii Apodes,

Constitute one natural family.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. Anguilliformes.	I. Muræna, *L.*	1. Anguilla, *Thun.* & *Shaw*	A. ?
		2. Anguilla, prop.	Mur. conger, L. *Conger eel*
		3. Ophisurus, *Lacép.*	M. serpens, L. *Sea serpent*
		4. Muræna, prop. *Thunb.*	M. helena, L. *Murane*
		5. Spagebranchus, *Bl.*	S. rostratus, Bl. *Double-chin-gilt*
		6. Monopterus, *Commers.* & *Lacép.*	M. Javanais, Lacép.
		7. Synbranchus, *Bl.*	S. marmoratus, Bl.
		8. Alabes, *Cuv.*	A. ?

ORDER IV.—Malacopterygii Apodes (*continued*).

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. Anguilliformes (*continued*).	II. Saccopharynx, *Mitch.*		S. flagellum, Mitch.
	III. Gymnotus, *L.*	1. Gymnotus, prop. *Lacép.*	G. electricus, L. *Electric eel*
		2. Sternarchus, *Schn.*	G. albifrons, Pall.
	IV. Gymnarchus, *Cuv.*		G. Niloticus, Cuv.
	V. Leptocephalus, *Penn.*		L. Morisii, Gmel.
	VI. Ophidium, *L.*	1. Ophidium, prop.	O. barbatum, Bl.
		2. Fierasfer	O. imberbe, Lin.
		3. Ammodytes, *L.*	O. tobianus, L. *Sand eel*

SERIES I.—OSSEI.

ORDER V.—Lophobranchii.

Gills in tufts; operculum fixed by a membrane which only affords a small aperture for the escape of the water. There are two genera.

Genus.	*Subgenus.*	*Example of Species.*
I. Syngnathus, *L.*	1. Syngnathus, prop.	S. acus, L. *Sea adder*
	2. Hippocampus, *Cuv.*	H. brevirostris, Cuv.
	3. Solenostomus, *Lacép.*	Fistularia paradoxa, Pall.
II. Pegasus, *L.*		P. draco, L. *Sea dragon*

SERIES I.—OSSEI.

ORDER VI.—Plectognathi.

Maxillary fixed to the intermaxillary bones, and the palatal to the cranium. Opercula covered in.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. Gymnodontes.	I. Diodon, *L.*		D. atinga, Bl. *Globe-fish*
	II. Tetraodon, *L.*		T. lineatus, L.
	III. Orthogariscus, *Schn.*		O. spinosus, Bl. *Sun-fish*
	IV. Triodon		T. bursarius, Reinw.
II. Sclerodermata.	I. Balistes, *L.*	1. Balistes, prop.	B. capriscus, L. *Sea-hag*
		2. Monocanthus, *Cuv.*	B. tomentosus, L.
		3. Aluterus, Cuv.	B. monoceros, L.
		4. Triacanthus, *Cuv.*	B. biaculeatus, Bl. *Long-file-fish*
	II. Ostracion, *L.*		O. bicaudalis, Bl.

SERIES II.—CHONDROPTERYGII.

ORDER I.—Eleutherobranchii.

Genus.	*Subgenus.*	*Example of Species.*
I. Accipenser, *L.*		A. sturio, L. *Common sturgeon*
II. Polyodon, *Lacép*		Squalus spatula, Mand.
III. Chimæra, *L.*	1. Chimæra, prop. *Cuv.*	C. monstrosa, L. *King of the herrings*
	2. Callorhynchus, *Gron*	C. callorhynchus, L. *Elephant-fish*

SERIES II.—CHONDROPTERYGII.

ORDER II.—Pentobranchii.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. Plagiostoma.	I Squalus, *L.*	1. Scyllium, *Cuv*	S. canicula, L. *Greater cat-fish*
		2. Squalus, prop	S. ?
		3. Carcharias, *Cuv.*	S. carcharias, L. *White shark*
		4. Lamna, *Cuv.*	S. cornubicus, Schn. *Porbeagle shark*
		5. Galeus, *Cuv.*	S. galeus, L. *Tope*
		6. Mustelus, *Cuv*	S. mustelus, Lin. *Smooth hound*
		7. Notidanus, *Cuv.*	S. griseus, L.
		8. Selache, *Cuv.*	S. maximus, *Basking shark*
		9. Cestracion, *Cuv.*	S. philippi, Schn.
		10. Spinax, *Cuv.*	S. acanthias, Lin. *Hound-fish*
		11. Centrina, *Cuv.*	S. centrina, Lin.
		12. Scymnus, *Cuv.*	S. squamosus, Lacép.
	II. Zygæna, *Cuv.*		S. malleus, Val. *Hammer-headed shark*
	III. Squatina, *Dum.*		S. squatina, L. *Angel-fish*
	IV. Pristis, *Lath.*		P. antiquorum, Lath. *Saw-fish*
	V. Raia, *Lin.*	1. Rhinobatus, *Schn.*	R. rhinobatus, Lin.
		2. Rhina, *Schn.*	R. ancylostomus, Bl.
		3. Torpedo, *Dum.*	T. galvanii, Riss. *Torpedo*
		4. Raia, prop. *Cuv.*	R. clavata, L. *Thornback*
		5. Trygon, *Adans*	R. pastinaca, L. *Sting ray*
		6. Anacanthus, *Ehrenb.*	R. orbicularis, Bl.
		7. Myliobates, *Dum.*	R. aquila, L. *Sea-eagle*
		8. Cephalothoptera, *Dum.*	R. cephalothoptera, Schn.
II. Cyclostoma.	I. Petromyzon, *L.*	Petromyzon, prop.	P. fluvialis, L. *River lamprey*
	II. Myxine, *L.*	1. Heptatrema, *Dum.*	P. cirrhatus, Forst.
		2. Gastrobranchus, *Bloch*	G. cæcus, Bl. *Blind lamprey*
		3. Ammocœtes, *Dum.*	P. branchialis, Lin. *Pride of the Isis*

INVERTEBRATA.

DIVISION II.—MOLLUSCA.

The animals of this second grand division of the animal kingdom are either *naked* or *testaceous.*

They are divided into six classes.

Division.	*Class.*
MOLLUSCA..	I. CEPHALOPODA
	II. PTEROPODA
	III. GASTEROPODA
	IV. ACEPHALA
	V. BRACHIOPODA
	VI. CIRRHOPODA

CLASS I.—CEPHALOPODA.

This class, named from the long prehensile arms which surround the head, includes but one order, designated by the same name, divided into six genera.

Genus.	*Subgenus.*	*Example of Species.*
I. Sepia..........	1. Octopus, *Lam.* Polypus, *Aristotle*..	Sepia octopodia, L.
	Eledone, *Arist.*	Octopus moschatus, Lam.
	2. Argonauta, *Lin.*..	Nautilus & Pompilus *of the ancients*
	3. Bellerophon (Fossil).	B. vasulites, Montf.
	4. Loligo, *Lam.*	Sepia loligo, Lin. *Calamary*
	5. Onykia, *Lesueur*....	On. caribœa, Lesueur
	6. Sepiola, *Cuv.*	Sepia sepiola, Lin.
	7. Chondrosepia, *Leukard*	Chon. loligiformis, Leukard
	8. Sepia, prop. *Lam.*	Sepia officinalis, Lin. *Common cuttle*
II. Nautilus	1. Spirula, *Lam.*......	N. spirula, L. *Rams-horn*
	2. Nautilus, prop. *Cuv.*	N. pompilius, L. *Great chambered nautilus*

CLASS I.—CEPHALOPODA (*continued*).

Genus.	*Subgenus.*	*Example of Species.*
III. Belemnites		*These genera, with their subdivisions, are all fossil.*
IV. Actinocamax, *Miller*		
V. Ammonites, *Brug.*	1. Ammonites, prop. *Lam.*	
	2. Ceratites, *Haan*	
	3. Orbitulites, *Lam.*	
	4. Scaphites, *Sowerb.*	
	5. Baculites, *Lam.*	
	6. Hamites, *Sowerb.*	
	7. Turrilites, *Montf.*	
VI. Camerines, *Brug.* Nummulites, *Lam.*	1. Siderolithes, *Lam.*	
	2. Helicostega	
	Hel. nautiloida	
	Hel. turbinoida	
	Hel. ammonoida	
	3. Stygostega	
	4. Enallostega	
	5. Agathistega	

CLASS II.—PTEROPODA.

The feet, so to speak, or rather the organs of locomotion of this class, have the appearance of wings or fins. It constitutes, like the last, but one order.

Genus.	*Subgenus.*	*Example of Species.*
I. Clio, *Lin.*		Clio borealis, Lin.
II. Cymbulia, *Peron*		
III. Pneumodermon, *Cuv*		Pn. Peronii, Cuv.
IV. Limacina, *Cuv.*		Clio helicina, Phips. & Gm.
V. Hyalea, *Lam.*		Anomia tridentata, Forskall
VI. Cleodora, *Peron.*	1. Cleodora, prop.	
	2. Creseis	
	3. Cuvieries	
	4. Psyche	
	5. Eurybia	
VII. Pyrgo Defrance		*Fossil*

CLASS III.—GASTEROPODA.

Includes the reptilious mollusca. They are naked or testaceous, though all the latter have not a shell large enough to take in the body of the animal. The class is divided into eight orders, viz :—

Class.	*Order.*
Gasteropoda	1. Pulmonaria
	2. Nudibranchiata
	3. Inferobranchiata
	4. Tectibranchiata
	5. Heteropoda
	6. Pectinabranchiata
	7. Scutibranchiata
	8. Cyclobranchiata

ORDER I. Pulmonaria.

These mollusca breathe by a sort of internal lungs, instead of gills. It is composed of the following genera.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. Terrestrial Pulmonaria.	I. Limax, *L.* *Slug*	1. Limax, prop. *Cuv.*	
		2. Arion, *Ferussac*	Lim. rufus, L.
		3. Limas, *Ferussac*	Lim. maximus, L.
		4. Vaginulus, *Ferussac*	Vag. Taunaisii, Ferus.
		5. Testacella, *Lam.*	Test. haliotoidea, Draparn.
		6. Parmacella, *Cuv.*	Parm. Olivieri, Cuv.
	II. Helix, *L.* *Snail*	1. Helix, prop. *Brug.* & *Lam.*	Hel. pomatia, L. *Edible snail*
		2. Vitrina, *Draparn.* Helico-Limax, *Feruss.*	Hel. pellucida, Mül.
		3. Bulimus, prop. *Lam.*	Hel. decollata, Gm. *Truncated snail*
		4. Pupa, *Lam.*	Bul. labrosus, Oliv.
		5. Chondrus, *Cuv.*	Bul. zebra, Oliv.
		6. Succinea, *Drap.*	Suc. amphibia, Drop.
	III. Clausilia, *Drap*		Turbo perversus, L. *Reversed wreath*
	IV. Achatina, *Lam.*		Bulla achatina, Chemn. *Broad striped dipper*

ORDER I.—Pulmonaria (*continued*).

Family.	*Genus.*	*Example of Species.*
II. Aquatic Pulmonaria.	V. Onchidium, *Buchanan*	Onchid. typhæ, Buch.
	VI. Planorbis, *Brug*	Hel. vortex, Gm.
	VII. Limnæus, *Lam.*	Hel. stagnalis, Gm.
	VIII. Physa, *Drap.*	Bulla fontinalis, L.
	IX. Scarabæus, *Montf.*	Hel. scarabæus, L.
	X. Auricula, *Lam.*	Aur. myosotis, Drap.
	XI. Conovulus, *Lam.* Melampes, *Montf.*	Voluta minuta, L.

ORDER II.—Nudibranchiata.

With naked gills on the back. They are divided into the following genera.

Genus.	*Example of Species.*
I. Doris, *Cuv.*	Dor. verucosa, L.
II. Onchidora, *Blainv.*	Onch. Leachii, Blain.
III. Plocamoceros, *Leuckard*	Ploc. ocellatus, Leach
IV. Polycera, *Cuv.*	Doris quadrilineata, Müll.
V. Tritonia, *Cuv.*	Trit. Hombergii, Cuv.
VI. Thethys, *Lin.*	T. fimbria, L. Cuv.
VII. Scyllæa, *Lin.*	S. pelagica, L. Cuv.
VIII. Glaucus, *Forster*	Doris radiata, Gm.
IX. Laniogerus, *Blain.*	L. Elfortii, Blain.
X. Eolidia, *Cuv.*	Doris papillosa
XI. Cavolina, *Brug.*	Doris peregrina, Gm.
XII. Flabellina, *Cuv.*	Doris affinis, Gm.
XIII. Tergipes, *Cuv.*	Limax tergipes, Forskal
XIV. Busiris, *Risso*	Bus. griseus, Risso
XV. Placobranchus, *Van Hasselt*	Plac. Hasseltii, Cuv.

ORDER III.—Inferobranchiata.

Gills on the lower sides of the body.

Genus.	*Example of Species.*
I. Phyllidia, *Cuv.*	Phil. trilineata, Seba
II. Diphyllidia, *Cuv.*	Diphyl. Brugmansii, Cuv.

ORDER IV.—TECTIBRANCHIATA—MONOPLEUROBRANCHIATA, *Blain.*

Gills like leaflets, on the right side, or on the back.

Genus.	*Subgenus.*	*Example of Species.*
I. Pleurobranchus, *Cuv.*		Pleur. Peronii, Cuv.
II. Pleurobranchæa, *Meckel*		Pleur. Meckellii, Lam.
III. Aplysia, *Lin.*		Apl. fasciata, Poiret
IV. Dolabella, *Lam.*		Dol. Rumphii, Cuv.
V. Notarchus, *Cuv.*		Not. gelatinosus, Cuv.
VI. Bursatella, *Blain.*		Burs. Leachii, Blain.
VII. Akera, *Müller.*	1. Bullæa, *Lam.*	Bull. aperta, Lam.
	2. Bulla, *Lam.*	Bul. lignaria, Lin.
	3. Akera, *Cuv.* Doridium, *Meck.* Lobaria, *Blain.*	Bulla carnosa, Cuv.
VIII. Gastropteron, *Meckel*		Gast. Meckelii, Kosse
IX. Gastroplax, *Blain.*	Umbrella, *Lam.*	

ORDER V.—HETEROPODA.

In this order, the foot is formed into a vertical muscular lamina, and does not form a disk, as in the other orders.

Genus.	*Subgenus.*	*Example of Species.*
I. Pterotrachea, *Forsk.*	1. Carinaria, *Lam.*	Car. cymbium, Lam.
	2. Atlanta, *Lesueur*	At. Peronii, Lesueur
	3. Firola, *Peron*	Pter. coronata, Forskal
	4. Timorienna, *Quoy.* & *Gaym.*	
	5. Monophora, *Peron*	
II. Phylliroe		

ORDER VI.—PECTINIBRANCHIATA.

In this numerous order, the gills are pectinated, and occupy the last whorl of the shell.

ORDER VI.—Pectinibranchiata.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. Trochoida.	I. Trochus, *Lin.*	1. Tectaria, *Montf.*	Troch. inermis, Chemnitz
		2. Calcar, *Montf.*	Turbo calcar, Lin.
		3. Rotella, *Lam.*	Trochus vestiarius, Lin.
		4. Cantharis, *Montf.*	Trochus iris, Chem.
		5. Infundibulum, *Montf.*	Trochus concavus, Chem.
		6. Telescopium, *Montf.*	Trochus telescopium, Mont.
		7. Solarium, *Lam.*	Trochus perspectivus, Lin.
		8. Evomphalus, *Sowerby.*	E. pentangulatus, Sower.
	II. Turbo	1. Turbo, prop. *Lam.* Meleager, *Mont.*	Turbo pica, L. & turbo pecolatus, Lister
		2. Delphinula, *Lam.*	Turbo delphinus, L.
		3. Pleurotoma, *Defrance* Pleurostoma, *Lam.* Scissurella, *d'Orb*	*Fossil*
		4. Turritella, *Lam.*	Turbo imbricatus, Marlim.
		5. Scalaria, *Lam.*	Turbo scalaris, L.
		6. Cyclostoma, *Lam.*	Turbo elegans, L.
		7. Valvata, *Müll.*	Val. cristata, Mull.
	III. Paludina, *Lam*		Helix vivipara, L.
	IV. Littorina, *Ferussac*		Turbo littorius, L.
	V. Monodon, *Lam*		Trochus tessalatus, L.
	VI. Phasianella, *Lam*		Buccimum tritonis, Chem.
	VII. Ampullaria, *Lam.*	1. Lanista, *Mont.*	Ampulla carinata, Olivier
		2. Helicina, *Lam.*	Hel. striata, Blain.
		3. Ampullina, *Blain.*	
		4. Olygira, *Say*	
	VIII. Melania	1. Rissoa, *Freminv.* Acmea, *Harm.*	Mel. amarula, Lam.
		2. Melanopsis, *Feruss.*	Mel. buccinoidia, Féruss.
		3. Pirena, *Lam.*	Per. terebralis, Lam.
	IX. Actæon, *Mont.* Tornatella, *Lam.*		Voluta tornatilis, L.
	X. Pyramidella, *Lam*		Trochus dolabatus, Lam.
	XI. Janthina, *Lam*		Helix janthina, L.
	XII. Nerita, *Lin.*	1. Natica, *Lam.*	
		2. Nerita, prop. *Lam.* Peloronta, *Oken.*	
		3. Velata, *Montf.*	Nerita perversa, Gm.
		4. Neritina, *Lam*	N. fluviatilis, L.
II. Cupoloida.	I. Capulus, *Mont.* Pileopis, *Lam.*		Patella Hungarica, List.
	II. Hipponix, *Dep. P.*		Patella cornucopia, Lam.
	III. Crepidula, *Lam.*		Patella fornicata, Lister
	IV. Pileolus, *Sowerby*		Pil. plicatus, Sow.
	V. Septaria, *Feruss.* Navicella, *Lam.* Cimber, *Mont.*		Patella meritoïdea, List.
	VI. Calyptræa, *Lam.*		Patella equestris, L.
	VII. Siphonaria, *Sowerby*		Patella sipho, Sowerb.

ORDER VI.—Pectinibranchiata (*continued*).

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
II. Cupoloida.	VIII. Sigaretus, *Adans.*		
	IX. Coriocella, *Blainv.*		C. nigra, Blain.
	X. Cryptostoma, *Blainv.*		Cr. Leachii, Blain.
III. Buccinoida.	I. Conus, *L.*		Con. cedonulli, L.
	II. Cypræa, *L.*		
	III. Ovula, *Brug.*	1. Ovula, prop. *Mont.*	Bulla ovum, L.
		2. Volva, *Mont.*	Bulla volva, L.
		3. Calpurna, *Mont.*	Bulla vericosa, L.
	IV. Terebellum, *Lam*		Ter. subulatum, Lam.
	V. Voluta, *Lin.*	1. Oliva, *Brug.*	Oliv. subulata, Lam.
		2. Volvaria, *Lam.*	Vol. moniiis, Lin.
		3. Voluta, prop. *Lam.*	
		4. Cymbium, *Mont.*	Vol. æthiopica, List.
		5. Voluta, *Mont.*	Vol. musica, List.
		6. Marginella, *Lam.*	Vol. glabella, Adans.
		7. Colombella, *Lam.*	Vol. mercatoria, List.
		8. Mitra, *Lam.*	Vol. episcopalis, List.
		9. Cancellaria, *Lam.*	Vol. cancellata, Lam.
	VI. Buccinum, *Lin.*	1. Buccinum, prop. *Brug.*	Buc. undulatum, L.
		2. Nassa, *Lam.*	Buc. arcularia, List.
		3 Eburna, *Lam.*	Buc. glabratrum, List.
		4. Ancillaria, *Lam.*	An. cinnamomea, Lam.
		5. Dolium, *Lam.*	
		6. Dolium, prop. *Mart.*	Buc. olearium, Mont.
		7. Perdix, *Mart.*	Buc. perdix, L.
		8. Harpa, *Lam.*	Buc. harpa, L.
		9. Purpura, *Brug.*	Buc. persicum, List.
		10. Licorna, *Mont.* Monoceros, *Lam.*	Buc. monodon, Gm.
		11. Sistra, *Montf.* Ricinula, *Lam.*	
		12. Concholepas, *Lam.*	Buc. concholepas, Brug.
		13. Cassis, *Brug.*	Buc. vibex, Martin.
		14. Morio, *Mont.* Cassadaria, *Lam.*	Buc. caudatum, Lin.
		15. Terebra, *Brug.*	Buc. maculatum, Lin.
	VII. Cerithium. *Brug.*		Murex vertagus, List.
		1. Potamida, *Brong.*	Pot. Lamarckii, Brongn.
	VIII. Murex, *L.*	1. Murex, *Brug.* *Lam. Montf.*	M. tribulus, Lister
		2. Brontis, *Montf.*	M. haustellum, List.
		3. Typhis, *Montf.*	M. tubifer, Roissy
		4. Chicoracea, *Montf.*	M. remosus, Hist.
		5. Aquilla, *Montf.*	M. cutaceus, L.
		6. Lotorium, *Mart.*	M. lotorium, L.
		7. Tritonium, *Montf.*	M. tritonis, L.
		8. Trophona, *Montf.*	M. Magellanicus, Mart.
		9. Ranella, *Lam.*	M. bufo, Mont.
		10. Apolles, *Montf.*	M. gyrinus, Hist.
		11. Fusus, *Lam.*	
		12. Fusus, prop. *Montf.*	M. cochlidium, Seba

ORDER VI.—PECTINIBRANCHIATA (*continued*).

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
III. BUCCINOIDES (*continued*).	VIII. Murex, *L.* (*cont*,).	13. Lathira, *Mart.*	M. vespertilio, Martim.
		14. Struthiolaria	M. stramineus, Gm.
		15. Pleurotoma, *Lam.*	M. babilonius
		16. Clavatula	
		17. Pyrula, *Lam.*	M. rapa, Martini
		18. Fulgur, *Montf.*	M. perversus, L.
		19. Fasciolaria, *Lam.*	M. tulipa, L.
		20. Turbinella, *Lam.*	M. scolymus, Mart.
		21. Strombus, *Lin.*	
		22. Strombus,prop.*Lam.*	
		23. Pterocera, *Lam.*	Strombus lambis, Rond.
		24. Rostellaria, *Lam.*	S. pespelicani, L.
		25. Hippocrenes, *Mart.*	S. amplus, L.

ORDER VII.—TUBULIBRANCHIATA.

Allied in most respects to the previous order, but the shell describes a tube only partially spiral, and is attached to foreign bodies.

Genus.	*Subgenus.*	*Example of Species.*
I. Vermetus, *Adans*		Serpula lumbricalis, L.
	Vermillia, *Delamarck*	S. trigusta, Gm.
II. Mugilus, *Montf.*		Mugilus antiquus, Mart.
III. Siliquaria, *Brug.*		Serpula anguina

ORDER VIII.—SCUTIBRANCHIATA,

In this order, the shell is not turbinated, and is in fact little else than a mere shield to the gills. The animals are true hermaphrodites.

Genus.	*Subgenus.*	*Example of Species.*
I. Halyotis, *Lin.*	1. Halyotis, prop. *Lam.*	Halyotis, Gm.
	2. Padolla, *Montf.*	Padolla, Montf.
	3. Stromatia, *Lam.*	Halyotis imperforata, Gm.
II. Fissurella, *L.*		Patella *of Div. V. of* Gm.
III. Emarginula, *Lam*		Patella fissura, L.
IV. Parmophorus, *Lam.*		Patella ambigua, Chem.

ORDER IX.—CYCLOBRANCHIATA.

The gills, in the forms of leaflets, are situated under the edge of the mantle. In other respects the order is assimilated to the last.

Genus.	*Example of Species.*
I. Patella, *L.*	Patella, Gm.
II. Chiton, *L.*	Chiton, L.

CLASS IV.—ACEPHALA.

In this class there is no apparent head, the principal ganglion of the brain being over the mouth, which is situated at the bottom, or between the folds of the mantle.

ORDER I.—ACEPHALA TESTACEA.

In this order, the animals have four branchial leaflets. All the bivalves, and many multivalves, belong to it.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. OSTRACEA.	I. Acarda, *Brug.* Ostracita, *La Peyrouse*	1. Radiolites, *Lam.*	
		2. Spherulites, *Lametherie*	
		3. Calceolaria	
		4. Hippurites	
		5. Batolithes, *Montf.*	
	II. Ostrea, *Lin.*	1. Ostrea, prop. *Brug*	Os. edulis, L.
		2. Gryphæa, *Lam.*	Gr. tricarinata
		3. Pecten, *Brug.*	Os. maxima, L.
		4. Lima, *Brug.*	Os. lima, L.
		5. Pedum, *Brug.*	Os. spondyloidea, Gm.
	III. Hinnita, *Defr.*		Hinnita gigantea, Gray
	IV. Plagiostoma, *Sowerby*		Pl. gigas, Sow.
	V. Pachytes, *Defr.*		Pac. spinosus, De F.

ORDER I.—Acephala Testacea (*continued*).

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. Ostracea (*continued*).	VI. Dianchora, *Sowerby*		D. striata, Sow.
	VII. Podopsis, *Lam.*		Pod. truncata
	VIII. Anomia, *Brug.*		An. ephippium, Gm.
	IX. Placuna, *Brug.*		Anom. placenta, Chem.
	X. Spondylus, *L.*		Spond. gæderopus, Chem.
		Plicatula, *Lam*	Spond. plicatus, L.
	XI. Malleus, *Lam.*		Ost. malleus, L.
	XII. Vulsella, *Lam*		Mya vulsella, Chem.
	XIII. Perna, *Brug.*		Ost. isignonum, Chem.
		1. Crenatula, *Lam.*	Gervilia solenoïdes, Def.
		2. Gervilia, *Defr.*	
		3. Inoceramus, *Sowerby*	Inos. concentricus, Parkins
		4. Catillus, *Brong.*	Cat. Cuvieri, Brong.
		5. Pulvinites, *Defr*	Pul. Adansonii, Dep.
	XIV. Etheria, *Lam*		Eth. elliptica, Lam.
	XV. Avicula, *Brug.*		Mytilus margiritiferus, L.
		1. Pintadina, *Lam.*	*Species with ears less salient*
		2. Avicula, prop	*Species with ears more pointed*
	XVI. Pinna		Pinna nobilis, L.
	XVII. Arca, *L.*	1. Arca, prop. *Lam.*	Arca Noæ, Chem.
		2. Cucullæa, *Delamarck*	Arca cucullata, Chem.
		3. Pectunculus, *Lam.*	Arca pilosa, L.
		4. Nucula, *Lam.*	Arca pellucida, Chem.
	XVIII. Trigonia, *Brug.*		La Trigonie nacrée, Lam.
II. Mytilacea.	I. Mytilus, *Lin.*	1. Mytilus, prop.	Myt. edulis, L.
		2. Modiolus, *Lam.*	Myt. modiolus, Lam.
		3. Lithodomus, *Cuv.*	Myt. lithophagus, L.
	II. Anodontes, *Brug.*	1. Anodonte, prop.	Myt. cygnæus, L.
		2. Iridina, *Delamarck*	Irid. cocotica
		3. Dipsada, *Leach*	
	III. Unio, *Brug.*	1. Unio, prop.	Mya margiritifora, L.
		2. Hyria, *Lam.*	H. rugosa, Lam.
		3. Castalia, *Lam.*	Cast. ambigua, Lam.
	IV. Cardita, *Brug.*		Chama caliculata, Chem.
	V. Cypricardia, *Lam.*		Chama oblonga, Gm.
	VI Coralliophaga, *Blainv.*		Chama coralliophaga, Gm.
	VII. Venericardia, *Lam.*		Venus imbricata, Chem.
	VIII. Crassatella, *Lam.* Paphia, *Roiss.*		Venus ponderosa, Chem.
III. Chamacea.	I. Chama, *Lin.*	1. Tridacna, prop. *Lam.*	Chama gigas, L.
		2. Hippopus	Chama hippopus, L.
		3. Chama, prop. *Brug.*	Chama Lazarus, Chem.
		4. Diceras, *Lam.*	Dic. arietina, Lam.
		5. Isocardia, *Lam.*	Chama cor, L.

ORDER I.—Acephala Testacea (*continued*).

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
IV. Cardiacea.	I. Cardium		Cardium edule, L.
		Hemicardium	Card. cardissa, Chem.
	II. Donax, *L.*		Don. rugosa, Chem.
	III. Cyclas, *Brug.*	1. Cyclas	Tellina cornea, L.
		2. Cyrena, *Lam.*	Tell. fluminea, Chem.
		3. Cyprina, *L.*	Venus Islandica, Chem.
		4. Galathæa, *Brug.*	Venus hermaphrodita, Chem.
	III. Corbis, *Cuv.*	Fimbria, *Megerl.*	Venus fimbriata, Chem.
	IV. Tellina, *L.*		*These have been subdivided by Gmelin according to the form of the shell*
	V. Loripes, *Poli*		Tellina lactea
	VI. Lucina, *Brug.*		Venus Pennsylvanica, Chem.
	VII. Ungulina		Un. transversa, Sowerby
	VIII. Venus, *L.*	1. Venus, prop. *Delamarck*	Venus litterata, Chem.
		2. Astarta, *Sow.* Crassina, *Lam.*	Venus scotica, Hans Lerin
		3. Cytherea, *Lam.*	Venus gigantea
		4. Capsa, *Brug.*	Venus deflorata, Chem.
		5. Petricola, *Lam.*	Venus lapicida, Chem.
	IX. Corbula, *Brug.*		C. gallica
	X. Mactra, *L.*	1. Mactra, prop. *Lam.*	Mya australis, Chem.
		2. Lavignon	Mya Hispanica, Chem.
V. Inclusa.	I. Mya, *Lin.*	1. Mya, prop. *Lam.*	Mya truncata, L.
		2. Lutraria, *Lam.*	Mactra lutraria, Lister
		3. Anatina, *Lam.*	Solen anatinus, Chem.
		4. Solemya, *Lam.*	Tellina togata, Poli
		5. Glycymeris, *Lam.* Cyrtodaria, *Daud.*	Mya siliqua, L.
		6. Panopea, *Mesnard*	Mya glycimeris, L.
		7. Pandora, *Brug.*	Tellina inequivalvis
	II. Byssomia, *Cuv.*		Mytilus pholadis, Mül.
	III. Hyatella, *Daud*		Solen minutus, L.
	IV. Solen, *L.*	1. Solen, prop. *Cuv.*	Solen vagina, Chem.
		2. Sanguinolaria, *Lam.*	S. sanguinolentus, Chem.
		3. Psammobia, *Lam.*	Tellini gari, Lin.
		4. Psammothea, *Lam.*	P. violacea, Lam.
	V. Pholas, *L.*		Pholas dactylus, L.
	VI. Teredo, *L.*		T. navalis, L.
	VII. Fistulana, *Brug.*		Teredo clava, Gm.
	VIII. Gostrochæna, *Spengler*		Pholas hyans, Chem.
	IX. Teredina, *Lam.*		T. personata, Lam.
	X. Clavagella, *Lam.*		Cl. echinata, Lam.
	XI. Aspergillium		Asper Javaneus, Mart.

ORDER II.—Acephala Nuda.

These are without a shell. The gills differ among themselves in form, but never constitute four leaflets, as in the testaceous acephala.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. Distinct Naked Acephala.	I. Biphora, *Brug*. Thalia, *Brown*. Salpa & Dagysa, *Gm*.	1. Salpa, prop. *Cuv*.	Salpa scutigera, Cuv.
		2. Thalia, *Brown*	Holothuria thalia, Gm.
	II. Ascidia, *L*. *Theyton of the ancients*		Asc. pedunculata, Edwards
II. Aggregate Naked Acephala.	I. Botryllus, *Gærtn*		Bo. stellia, Gærtner
	II. Pyrosoma, *Peron*.		
	III. Polyclinium		Pyrosoma elegans, Lesueur

CLASS V.—BRACHIOPODA.

In this class, as in the fourth, the mantle has two lobes, and it is always open; but for feet there are fleshy arms, with numerous filaments, which can be withdrawn into the shell. All the genera are bivalves.

Genus.	*Subgenus.*	*Example of Species.*
I. Lingula, *Brug*		Lin. anatina, Cuv.
II. Terebratula, *Brug*.	1. Spirifer, *Sowerby*	Anomia scobinata, Gualt.
	2. Thecidia, *Def*.	The. Mediterranea, Risso
III. Orbicula, *Cuv*.		Patella anomala, Müll.
	Crania, *Brug*.	Anomia craniolaris, L.

CLASS VI.—CIRRHOPODA.

Lepas and Tritons, *Lin.*

In this class, the animals of which approach the Articulata, the mouth is furnished with jaws, and the abdomen with filaments, or cirrhi, in pairs, like those under the tail of several crustacea.

Genus.	*Subgenus.*	*Example of Species.*
I. Anatifa, *Brug.*	1. Pentalasmis, *Leach*	Lepas anatifera, L.
	2. Pollicipes, *Leach*	Lepas pollicipes, L.
	3. Cineras, *Leach*	C. vittata, Leach
	4. Otion, *Leach*	Otion Cuvieri, Leach
	5. Tetralasmis, *Cuv.*	T. hirsutus, Cuv.
II. Balanus, *Brug.*	1. Balanus, prop.	Lepas balanus, L.
	2. Acasta, *Leach*	A. Montagni, Leach
	3. Conia, *Blainv.*	C. radiata, Blain.
	4. Asama, *Ranzani*	Lepas porosus, Gm.
	5. Pyrgoma, *Savig.*	Py. cancellata, Leach
	6. Octhosia, *Ranzani*	Lepas Stræmii, Müll.
	7. Creusia, *Leach*	C. spinulosa, Leach
	8. Coronula, *Lam.*	Lepas balænaris, L.
	9. Tubicinella, *Lam.*	La Tubicinelle, *Lam. An. Mus.* I. xxx.
	10. Diadema, *Ranz.*	Lepas diademi, Chem.

DIVISION III.—ARTICULATA.

In this grand division, the body, and in general the limbs, are surrounded by, or encased in, articulated rings, affording a support for the soft parts, and an attachment for the muscles.

It is divided into four classes.

Division.	*Class.*
ARTICULATA..	I. Annelida, *Lam.* or, Worms with red blood, *Cuv.*
	II. Crustacea
	III. Arachnida
	IV. Insecta

CLASS I.—ANNELIDA, or, Worms with red blood.

Body soft, elongated, articulated or divided into segments or transverse folds.

The Annelida are divided into three orders, viz :—

Class.	*Order.*
Annelida..	1. Tubicola
	2. Dorsibranchiata
	3. Abranchiata

ORDER I.—Tubicola.

These animals form tubes to live in, either of calcareous matter exuded from their own body, or from foreign substances, to which tubes they are not however attached, like the tubicolous or testaceous mollusca.

ORDER I.—TUBICOLA.

Genus.	*Subgenus.*	*Example of Species.*
I. Serpula, *L.*		Serpula contortuplicata, Ellis
	Spirorbis, *Lam.*	Serpula spirillum, Pallas
II. Sabella, *Cuv.*		Sabella protula, Cuv.
III. Terebella, *Cuv.*		Ter. conchilega, Gm.
IV. Amphitrite, *Cuv.*		Am. auricoma Belgica, Gm.
V. Syphostoma, *Otto*		Sy. diplocaita, Otto
VI. Dentalium, *L.*		D. elephantinum, Martini

ORDER II.—DORSIBRANCHIATA.

Genus.	*Subgenus.*	*Example of Species.*
I. Arenicola, *Lam.*		Lumbricus marinus, L.
II. Amphinome, *Brug*	1. Chloeia, *Sav.*	Terebella flava, Gm.
	2. Pleione, *Sav.* Amphinome, *Blain.*	Ter. carunculata, Gm.
	3. Euphosine, *Sav.*	Eu. laureata, Sav.
	4. Hipponoa, *Aud.* & *Edw*	Hip. Gaudichaudi
III. Eunice, *Cuv*	1. Eunice, *Cuv*	Eun. gigantea, Cuv.
	2. Marphisa, *Sav*	Ner. sanguinea, Montag.
	3. Lysidica, *Sav*	Ly. Valentina, Sav.
	4. Aglaura, *Sav*	Ag. fulgida
IV. Nereida, *Sav.* Lycoris, *Sav.*	1. Nereis, prop. *Cuv.*	Nereis versicolor, Gm.
	2. Phyllodoca, *Sav.* Nereiphylla, *Blain.*	Nereis lamifera Atlantica, Pallas
V. Alciopa, *Aud.* & *Edw*		Al. Reynaudii, Aud. & Edw.
VI. Spio, *Fab.* & *Gmel*	1. Spio, prop.	Spio setticornis, Otto
	2. Syllis, *Sav.*	S. monilaris, Sav.
	3. Glycera, *Sav.*	Nereis alba, Müll.
	4. Nephthys, *Cuv.*	Nephthys Hombergii, Cuv.
VII. Lombrinera, *Blain*	1. Lombrinera	Nereis abranchiata, Pallas
	2. Aricia, *Sav*	Ar. Cuvieri, Aud. & Edw.
	3. Hesiona	H. splendida, Sav.
VIII. Ophelia, *Sav*		Nereis prismatica ?
IX. Cirrhatula, *Lam.*		Lumbricus cirrhatus, Ott.
X. Palmyra, *Sav*		Pal. aurifera, Sav.
XI. Aphrodita, *L.*	1. Halithea, *Sav*	Aphrodita aculeata, L.
	2. Polynoe, *Sav.* Eumolpe, *Oken*	Amphr. squamata, Pall.
	3. Sigalion, *Aud.* & *Edw*	Sig. Mathildæ, Aud. & Edw.
	4. Acoëta, *Id.*	A. Pleei, Aud. & Edw.
XII. Chætopterus, *Cuv.*		Ch. pergamentaceus, Cuv.

ORDER III.—Abranchiata.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. Abranchiata with Tufts.	I. Lumbricus, *L.*	1. Enterio, *Sav.*	L. terrestris, L.
		2. Hypogæon	Hy. hirtum, Sav.
		3. Trophonia	T. barbata, Aud. & Edw.
	II. Nais, *L.*		Nais elinguis, Müll.
	III. Climena		Cl. amphistoma, Sav.
II. Abranchiata without Tufts.	I. Hirudo, *L.*	1. Sanguisuga, *Sav.*	H. medicinalis, L.
		2. Hæmopis, *Sav.*	H. sanguisuga, Sav. *Horse leech*
		3. Bdella, *Sav.*	Bd. Nilotica, Eg.
		4. Nephelis, *Sav.*	Hir. vulgaris, L.
		5. Trochetia, *Dutrochet*	Geobdella trochetii, Blain.
		6. Aulostoma, *Moquin-Tandou*	A. nigrescens
		7. Branchiobdella, *Odier*	B. astaci, Od.
		8. Hæmocharis, *Sav*	Hirudo piscium, L.
		9. Albiona, *Sav*	Hir. muricata, L.
		10. Branchellio, *Sav.*	B. torpedinis, Sav.
		11. Clepsines, *Sav.* Glossopores, *Johns*	Hir. complanata, L.
		12. Phyllina, *Oken*	Hir. hippoglossi, Müll.
		13. Malacobdella, *Blain.*	Hir. grossa, Müll.
	II. Gordius, *L*		G. aquaticus, L.

ARTICULATA.

The following classes of Articulata have articulated feet or legs.

CLASS II.—CRUSTACEA.

This class is divided into two sections.

Class.	*Section.*
CRUSTACEA..	I. MALACOSTRACA
	II. ENTOMOSTRACA

The section Malacostraca is divided into five orders.

Section.	*Order.*
MALACOSTRACA..	1. Decapoda
	2. Stomapoda
	3. Amphipoda
	4. Læmodipoda
	5. Isopoda

The first four orders embrace the genus *Cancer* of Linnæus, and the last that which he names *Oniscus*.

ORDER I.—DECAPODA.

Family.	*Genus.*	*Section.*	*Subgenus.*	*Example of Species.*
I. BRACHYUROUS DECAPODS.	Cancer, *Daldort.*	I. Natans....	1. Matuta, *Fab.*	C. latipes, De Géer
			2. Polybius, *Leach.*	Polybius Henslowii, Leach
			3. Orithyia, *Fab.*....	O. mamillaris, Fab.
			4. Podophthalmus, *Lam*........	P. spinosus, Latr.
			5. Portunus, *Fab.* ..	Por. Dufourii, Latr.
			6. Platyonichus, *Cuv.*	C. latipes, Plancus
		II. Arcuata...	1. Cancer, prop. *Fab.*	C. Pagurus, L.
			2. Pirimela, *Leach* ..	P. denticulata
			3. Atelecyclus, *Leach*	A. Anglorum, Cuv.
			4. Thia, *Leach*	T. polita, Leach
			5. Mursia, *Leach*....	M. Africana, Cuv.
			6. Hepatus, *Lat.*....	H. fasciatus, Latr.

ORDER I.—DECAPODA *(continued)*.

Family.	*Genus.*	*Section.*	*Subgenus.*	*Example of Species.*
I. BRACHYUROUS DECAPODS *(continued)*	Cancer, *Daldort (continued)*.	III. Quadrilaterata..	1. Eriphia, *Lat*....	C. spinifrons, Fab.
			2. Trapezia, *Lat*. ..	C. cymodoce, Herbst.
			3. Pilumnus, *Lea*..	
			4. Thelphusa, *Lat*.	C. fluviatilis, Bel. Rondel. Gesn.
			5. Gonoplax, *Lea*..	C. angulatus, Lin.
			6. Macrophthalmus, *Lat*.....	Gonoplax transversus, Latr.
			7. Gelasimus, *Latr*. Uca, *Le*.	Gel. Austr. Carolina
			8. Ocypode, *Fab*. ..	O. rhombea, Fab.
			9. Mictyris, *Lat*. ..	Mic. Austr. oceani, Cuv.
			10. Pinnotheres, *Lat*.	
			11. Uca, *Latr*......	C. uca, Lin.
			12. Cardisoma, *Lat*. .	C. cordatus, L.
			13. Gecercinus, *Leach*	C. ruricola, L.
			14. Plagusia, *Latr*...	Pla. depressa, Latr.
			15. Grapsus, *Lam*. ..	Grapsus varius, Latr.
		IV. Orbiculata	1. Corystes, *Lat*. ..	C. personatus, Herbst.
			2. Leucosia, *Fab*. ..	Leu. cylindrus, Fab.
		V. Trigona...	1. Parthenope, *Fab*..	P. horrida, Fab.
			2. Mithrax, *Lea*..	Mithrax spinicinctus, Labr.
			3. Acanthonyx, *Lat*.	Maia glabra, *Coll. in Mus. of Nat. Hist.*
			4. Pisa, *Leach*	P. aurita, Latr.
			5. Pericera, *Lat*. ..	Maia taurus, Lam.
			6. Maia, *Leach*	C. squinado, Herbs.
			7. Micippus, *Lea*. ..	C. cristatus
			8. Stenocionops, *Lea*.	C. cervicornis, Herbs.
			9. Camposcia, *Cuv*.	
			10. Halimus, *Latr*...	C. superciliosus, Lin.
			11. Hyas, *Leach*	C. araneus, Lin.
			12. Libinia, *Leach* ..	L. canaliculata, Say.
			13. Leptopus, *Lam*..	Maia longipes, Cuv.
			14. Hymenosoma, *Lea*.	H. orbicularis, Desmar.
			15. Inachus, *Fab*. ..	C. dodecos ? Lin.
			16. Achæus, *Leach*..	A. Cranchii, Leach
			17. Stenorhynchus, *Lam*........	Macropodia tenuirostris, Lea.
			18. Leptopodia, *Leach*	Inachus sagittarius, Fab.
			19. Pactolus, *Leach* ..	P. Boscii, Leach
			20. Lithodes, *Latr*..	C. maja, Lin.
		VI. Cryptopoda......	1. Calappa, *Fab*.....	Cal. granulata, Fab.
			2. Æthra, *Leach*....	Æ. depressa, Lam.
		VII. Notopoda	1. Homola, *Leach* ..	H. spinifrons, Leach
			2. Dorippe, *Fab*.. ..	D. lanata, Lin.
			3. Dromia, *Fab*.	C. dromia, Lin.
			4. Dynomene, *Latr*. .	D. hispida, Desm.
			5. Ranina, *Lam*.....	R. Aldrovandi, Ranz.

ORDER I.—Decapoda (*continued*).

Family.	*Genus.*	*Section.*	*Subgenus.*	*Example of Species.*
II. Macrourous Decapods, Exochnata, *Fab.*	Astacus, *De Géer & Gronovius.*	I. Anomala	1. Albunea, *Fab.*	Cancer symnista, Lin.
			2. Hippa, *Fab.* Emerita, *Gronov.*	H. adactyla, Fab.
			3. Remipes, *Latr.*	R. testudinarius, Latr.
			4. Birgus, *Leach*	Cancer latro, Lin.
			5. Pagurus, *Fab.*	Pagurus clypeatus, Fab.
		II. Locustæ	1. Scyllarus, *Fab.*	Cancer arctus, Lin.
			2. Palinurus, *Fab.*	P. quadricornis, Fab.
		III. Astacina	1. Galathea, *Fab*	G. rugosa, Fab.
			2. Porcellana, *Lam.*	P. Hexapus, Lat.
			3. Megalopus, *Lea.* Macropus, *Lat.*	M.
			4. Gebia, *Leach*	Thalassina littoralis
			5. Thalassina, *Latr*	Callianassa subterranea, Leach
			6. Callianassa, *Lea.*	
			7. Axius, *Leach*	A. stirhynchus, Leach
			8. Eryon, *Desmarest*	E. Cuvieri
			9. Astacus, *Gronov*	Cancer Norwegicus, Lin.
		IV. Carides	1. Penæus, *Fab*	Palæmon sulcatus, Oliv.
			2. Stenopus, *Lat.*	Cancer setiferus, Lin.
			3. Atya, *Leach*	A. scabra, Leach
			4. Crangon, *Fab.*	C. vulgaris, Fab.
			5. Processa, *Lea.* Nika, *Risso*	Nika edulis, Ris.
			6. Hymenocera, *Latr.*	Alpheus elegans, Riss.
			7. Gnathophyllum, *Lat.*	
			8. Pontonia, *Latr*	Alpheus thyrenus, Riss.
			9. Alpheus, *Fab.*	A. Malabaricus
			10. Hippolyte, *Lea.*	
			11. Autonomea, *Ris.*	A. Olivii, Riss.
			12. Pandalus, *Leach*	P. annulicornis, Leach
			13. Palæmon, *Fab.*	P. serratus, Leach
			14. Lysmata, *Riss.*	L. seticauda, Riss.
			15. Athanas, *Lea.*	A. nitescens, Leach
			16. Pasiphæa, *Sav.*	Alpheus sivado, Riss.
			17. Mysis, *Latr.*	M. Fabricii
			18. Cryptopus, *Latr.*	C. Defrancii, Latr.
			19. Mulcion	M. Lesueuri

ORDER II.—Stomapoda.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. Uni-peltata.	I. Squilla, *Fab.*	1. Squilla, *Latr.*	Cancer mantis, Lin.
		2. Gonodactylus, *Lat.*	Squilla scyllarus, Fab.
		3. Coronis, *Latr.*	Squilla Eusebia ? Riss.
		4. Erichthus, *Latr.* Smerdis, *Lea.*	E. vitreus, Latr.
		5. Alima, *Leach*	A. hyalina, Latr.
II. Bi-peltata.	I. Phylossoma, *Leach*		

ORDER III.—Amphipoda.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
Gammarus, *Fab.*	I. Uroptera, *Lat.*	1. Phronima, *Latr*	Cancer sedentarius, Forsk.
		2. Hyperia, *Latr.*	Cancer monoculoides, Montag.
		3. Phrosine, *Riss.*	P. macrophthalma, Riss.
		4. Dactylocera, *Lat.*	Phrosina semilunata, Riss.
	II. Gammarina, *Latr.*	1. Ione, *Cuv.*	Oniscus thoracinus, Trans. Lin. Soc.
		2. Orchestia, *Lea.*	Oniscus gamarellus, Pall.
		3. Talitrus, *Lat.*	Oniscus locusta, Pall.
		4. Atylus, *Leach*	A. carinatus, Leach
		5. Gammarus, prop. *Lat.*	Cancer pulex, Lin.
		6. Melita, *Leach*	Cancer palmatus, Montag.
		7. Mæra, *Leach*	Cancer gammarus grosimanus, Mont.
		8. Ampithoe, *Leach*	Cancer rubricatus, Mont.
		9. Pherusa, *Leach.*	P. fucicola, Leach
		10. Dexamine, *Lea.*	Cancer gammarus spinosus, Mont.
		11. Leucothoe, *Lea.*	Cancer articulosus, Mont.
		12. Cerapus, *Say*	Cer. tubularis, Thom.
		13. Pedocerus, *Leach.*	P. variegatus, Leach
		14. Jassa, *Leach*	J. pulchella, Leach
		15. Corophium, *Lat.*	Cancer grossipes, Lin.
		16. Pterygocera, *Lat.*	Oniscus arenarius, Ency. Meth.
		17. Apseudes, *Lea.* Epheus, *Risso*	
	III. Decempedes, *Lat.*	1. Typhis, *Riss.*	T. ovoides, Ris.
		2. Anceus, *Riss.*	A. forficularis, Ris.
		3. Praniza, *Lea.*	Oniscus cœruleatus, Mont.

ORDER IV.—LÆMODIPODA.

Genus.	*Subgenus.*	*Example of Species.*
Cyamus, *Latr.*	1. Leptomera, *Latr.*	Gammarus pedatus, Mull.
	2. Naupredia, *Latr.*	
	3. Caprella, *Lamck.*	Squilla lobata, Mull.
	4. Cyamus, *Latr*	Oniscus ceti, Lin.

ORDER V.—ISOPODA.

Genus.	*Subgenus.*	*Example of Species.*
Oniscus, *Lin.*	1. Bopyrus, *Latr.*	B. crangorum, Latr.
	2. Serolis, *Leach*	Cymothoa paradoxa, Fab.
	3. Cymothoa, *Fab.*	C. æstrum, Fab.
	4. Ichthyophilus, *Lat.*	See Desmar. Consid. 307
	5. Canolira, *Leach*	Anilocra capensis ?
	6. Æga, *Leach*	Æga *entaillée*
	7. Rocinela, *Leach*	See Desmar. 304
	8. Conilira, *Leach*	See Desmar. 304
	9. Synodus, *Latr.*	See Ency. method. Art. Synodus
	10. Cirolana, *Leach*	
	11. Nelocira, *Leach*	N. Swainsonii ?
	12. Eurydice, *Lea.*	See Desmar. 303
	13. Limnoria, *Lea.*	L. terebrans, Leach
	14. Zuzara, *Leach*	See Desmar. 298
	15. Sphæroma, *Lat.*	Oniscus serratus, Fab.
	16. Næsa, *Cuv.*	N. bidentata, Des.
	17. Cilicæa, *Leach*	C. Latreillii
	18. Cymodocea, *Leach*	See Desmar. 296
	19. Dynamene, *Lea.*	See Desmar. 297
	20. Anthura, *Lea.*	Oniscus gracilis, Montag.
	21. Idotea, *Fab.*	Oniscus entomon, Lin.
	22. Stenosoma, *Leach.*	S. lineare, Leach
	23. Arcturus, *Lat.*	A. tuberculatus, Cuv.
	24. Asellus, *Geoff.*	Idotea aquatica, Fabr.
	25. Oniscoda, *Lat.*	Janira maculosa, Leach
	26. Jæra, *Leach*	Jara albifrons, Leach
	27. Tylos, *Lat.*	T. armadillo, Latr.
	28. Ligia, *Fab.*	Oniscus oceanicus, Lam.
	29. Philoscia, *Lat.*	Oniscus sylvestris, Fab.
	30. Oniscus, prop. *Lin.*	On. murarius, Fab.
	31. Porcellio, *Lat.*	Oniscus asellus, Cuv.
	32. Armadillo, *Lat.*	Oniscus armadillo

CRUSTACEA.

GENERAL DIVISION II.—ENTOMOSTRACA

is divided into two orders.

Division.	*Order.*
ENTOMOSTRACA..	1. Branchiopoda
	2. Pæcilopoda

ORDER I.—BRANCHIOPODA.

Genus.	*Section.*	*Subgenus.*	*Example of Species.*
Monoculus, *Lin.*	I. Lophyropa .	1. Zoea, *Bosc.*	Zoe pelagica, Bosc.
		2. Nebalia, *Leach*....	N. Herbstii
		3. Condylura, *Lat.* ..	Con. Dorbignii ?
		4. Cyclops, *Müll.*	C. castor, Cuv.
		5. Cytherina, *Lam.*	
		6. Cypris, *Müll.*.....	C. strigata, Müll.
		7. Polyphemus, *Müll.* .	Monoculus pediculus
		8. Daphnia, *Müll.*...	Monoculus pulex, Lin.
		9. Lynceus, *Müll.*....	G. lynceus, Müll.
	II. Phyllopa..	1. Limnadia, *Adolp.*..	Lim. Hermani, Adolp.
		2. Artemia, *Leach*....	Cancer salinus, Lin.
		3. Branchipus, *Lat.* ..	Cancer paludosus
		4. Eulimene, *Latr.* ..	Eul. *blanchâtre*, Latr.
		5. Apus, *Scop.*	Monoculus apus, Lin.

ORDER II.—PÆCILOPODA.

Family.	*Genus.*	*Example of Species.*
I. XIPHOSURA	Limulus, *Fab.*	Limula heterodactyla, Cuv.
	Tachypleus	Lim. cyclops, Fab.

Family.	*Tribe.*	*Genus.*	*Subgenus.*	*Example of Species.*
II. SIPHONOSTOMA.	I. Caligides, *Latr.*	I. Argulus, *Mull*		Monoculus foliaceus, Lin.
		II. Caligus, *Mull*....	1. Caligus, prop. *Cuv.*	Cal. piscinus, Lat.
			2. Pterygopoda, *Lat.*.	See Desmar. Consid. 340
			3. Pandarus, *Leach* ..	Pan. bicolor, Leach
			4. Dinemoura, *Lat.* .	Caligus productus, Müll.
			5. Anthosoma, *Leach*	An. Smithii, Leach
		III. Cecrops, *Leach*		Cecrops Latreillii, Leach

ORDER II.—Pæcilopoda *(continued).*

Family.	*Tribe.*	*Genus.*	*Example of Species.*
II. Siphonostoma *(continued)*	II. Lerneiformes, *Latr.*	I. Dichelestium, *Herm. fils*	D. sturionis
		II. Nicothoe, *Aud. & Miln-Edw*	N. Astaci

TRILOBITES.

The singular fossils called Trilobites, are supposed by naturalists to have been *crustacea* allied to *entomostraca.*

The principal genera are

1. Agnostus, *Brong.*
2. Calymene, *Brong.*
3. Asaphus, *Brong.*
4. Ogygia, *Brong.*
5. Parodoxides, *Brong.*

CLASS III.—ARACHNIDA.

The *Arachnida* are divided into two orders.

Class.	*Order.*
Arachnida..	1. Pulmonariæ
	2. Trachearlæ

ORDER I.—Pulmonaria.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. Araneides.	I. Mygale, *Cuv*	1. Mygale, prop. *Walck.*	Aranea avicularia, Lin.
		2. Atypus, *Latr.* ..	Atypus Sulzeri, Latr.
		3. Eryodon, *Lat.* ..	E. occatorius, Latr.
		4. Dysdera, *Lat.* ..	D. erythrina, Lat.
		5. Filistata, *Lat.* ..	F. bicolor, Lat.

Genus.	*Division.*	*Section.*	*Subgenus.*	*Example of Species.*
II. Aranea, *Lin.*	I. Sedentariæ.	I. Tubiteles	1. Clotho, *Walck.*	C. uroctea 5-maculata, Dufour
			2. Drassus, *Walck.* ..	D. viridissimus, Walck.
			3. Segestria, *Lat.* ..	Aranea florentina, Ross.
			4. Clubiona, *Lat.*..	Aranea holosericea, Lin.
			5. Aranea, prop. *Cuv.*	Aranea domestica, Lin.
			6. Argyroneta, *Lat.*..	Aranea aquatica, Lin.
		II. Inequiteles	7. Scytodes, *Latr.*..	S. thoracica, Latr.
			8. Theridion, *Walck*	Aranea 13-guttata, Fab.
			9. Episinus, *Walck* .	E. truncatus
			10. Pholcus, *Walck*	P. Phalangioïdes, Walck.
		III. Orbiteles	11. Linyphia, *Latr* ..	L. triangularis, Walck.
			12. Uloborus, *Lat.* ..	U. Walckenærius, Latr.
			13. Tetragnatha, *Lat.*	T. extensa, Walck.
			14. Epeira, *Walck* ..	Aranea diadema, Lin.
		IV. Laterigrades ..	15. Micrommata, *Lat.*	Aranea smaragdula, Fab.
			16. Senelops, *Duf.* ..	S. omalosome, Dufour
			17. Philodromus, *Walck.*......	Araneus margaritarius, Clerck
			18. Thomisus, *Walck.*	Aranea globosa, Fab.
			19. Storena, *Walck.*	

ORDER I.—PULMONARIA (*continued*).

Family.	*Genus.*	*Division.*	*Section.*	*Subgenus.*	*Example of Species.*
I. ARANEIDES (*cont.*).	II. Aranea, *Lin.*	II. Vagabundi.	I. Citigrades	20. Oxyopes, *Latr.*	Sphasus heterophthalmus, Walck.
				21. Ctenus, *Walck.*	
				22. Dolomedes, *Latr.*	Araneus mirabilis, Clerck
				23. Lycosa, *Latr.*	Aranea tarantula, Lin.
				24. Myrmecia, *Latr.*	M. fauve, Cuv.
			II. Saltigrades	25. Tessarops, *Raf.*	
				26. Palpimanus, *Duf.*	P. Bossii, Duf.
				27. Eresus, *Walck*	E. cinnaberinus, Walck.
				28. Salticus, *Latr.*	Aranea sanguinolenta, Lin.

	Genus.	*Subgenus.*	*Example of Species.*
II. PEDIPALPI.	I. Tarantula, *Fab.*	1. Phrynus, *Oliv.*	Phalangium reniforme, Lin.
		2. Thelyphonus, *Lat.*	Phalangium caudatum, Lin.
	II. Scorpio, *Lin.*	1. Buthus, *Leach*	Scorpio, Afer, Lin.
		2. Scorpio, prop.	S. Europæus, L.

ORDER II.—TRACHEARIÆ.

Family.	*Tribe.*	*Genus.*	*Example of Species.*
I. PSEUDO SCORPIONES.		I. Galeodes, *Oliv.*	Solpuga fatalis, Fab.
		II. Chelifer, *Geoff.*	Phalangium cancroides, Lin.
II. PYCNOGONIDES.		I. Pycnogonum, *Brun.*	Mül. Zool.Dan. 119.20.
		II. Phoxichilus, *Latr.*	Pycnogonum spinipes, Fab.
		III. Nymphon, *Fab*	Pycnogonum grossipes, Fab.
III. Holetra, *Herm.*	I. Phalangita, *Latr.*	I. Phalangium, *Lin*	P. cornutum, Lin.
		II. Siro, *Latr*	S. rubens, Latr.
		III. Macrocheles, *Lat.*	Acarus marginatus, Herm.
		IV. Trogulus, *Lat.*	Trogulus nepæformis, Lat.

ORDER II.—TRACHEARIÆ (*continued*).

Family.	*Tribe.*	*Genus.*	*Subgenus.*	*Example of Species.*
III. HOLETRA, *Herm.* (*continued*).	II. Acarites.	I. Acarus, *L.*..	1. Trombidium, *Fab.*........	T. holosericeum, Fab.
			2. Erythræus, *Latr.*	E. Phalangioides, Latr.
			3. Gamasus, *Lat.* ..	G. marginatus, Lat.
			4. Chelyetus, *Lat.*	Acarus eruditus, Schrank
			5. Oribata, *Latr.*	
			6. Uropoda, *Lat.*..	Acarus vegetans, De Géer
			7. Acarus, prop. *Fab.*........	Acarus domesticus, De Géer
			8. Bdella, *Lat.* ..	Acarus longicornis, Lin.
			9. Smaridia, *Lat.*	Acarus sambuci, Schrank
			10. Ixodes, *Lat.*	Acarus ricinus, Lin.
			11. Argas, *Lat.*	Ixodes reflexus, Fab.
			12. Elyais, *Lat.*	Atax extendens, Fab.
			13. Hydrachna, *Lat.*........	Atax geographicus, Fab.
			14. Limnochares, *Lat.*........	Acarus aquaticus, Lin.
			15. Caris, *Lat.*.....	C. vespertilionis, Latr.
			16. Leptus, *Latr.*..	Acarus autumnalis, Shaw
			17. Aclysia, *Aud.*...	A. du dytique, Cuv.
			18. Atoma, *Latr.*..	Acarus parasiticus, De Géer
			19. Ocypete, *Leach.* .	O. rubra, Leach

CLASS IV.—INSECTA.

The Insects are divided into twelve orders.

Class.	*Order.*
Insecta	1. Myriapoda
	2. Thysanoura
	3. Parasita
	4. Suctoria
	5. Coleoptera
	6. Orthoptera
	7. Hemiptera
	8. Neuroptera
	9. Hymenoptera
	10. Lepidoptera
	11. Rhipiptera
	12. Diptera

ORDER I.—Myriapodes.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. Chilognatha.	I. Iulus, *Lin.*	1. Glomeris, *Latr.*	Iulus ovalis, Lin.
		2. Iulus, prop. *Lin.*	I. maximus, Lin.
		3. Polydesmus, *Lat.*	Iulus complanatus, Fab.
		4. Pollyxenus, *Latr.*	Scolopendra lagura, L.
II. Chilopoda, *Lat.*	Scolopendra, *Lin.*	1. Scutigera, *Lam.*	Iulus araneoides, Pall.
		2. Lithobius, *Leach*	Scolopendra forficata, Lin.
		3. Scolopendra, prop. *Lin.*	Sc. cingulata, Latr.

ORDER II.—Thysanoura.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. Lepismenæ, *Lat.*	Lepisma, *L.*	1. Machilis, *Latr.*	Leprisma polypoda, Lin.
		2. Lepisma,prop. *Lin.*	L. saccharina, Lin.
II. Podurellæ, *Lat.*	Podura, *L.*	1. Podura, *Lat.*	P. arborea, Lin.
		2. Symnthurus, *Lat.*	Podura atra, Lin.

ORDER III.—PARASITA.

Genus.	*Subgenus.*	*Example of Species.*
Pediculus, *Lin.*	1. Pediculus, prop. *De G.*	P. humanus corporis, De G.
	2. Hœmatopinus, *Leac.*	Pediculus suis, Pinz
	3. Ricinus, *DeG. Subdivided by Nitzsch*	Pediculus sternæ hirundinis, Lin.

ORDER IV.—SUCTORIA.

Genus.	*Example of Species.*
Pulex, *L.*	Pulex irritans, L.

ORDER V.—COLEOPTERA.

SECTION I.—PENTAMERA.

Family.	*Tribe.*	*Section.*	*Genus.*	*Subgenus.*	*Example of Species.*
I. CARNIVORA.	I. Cicindeletæ, *Lat.*	..	Cicindela, *Lin.*	1. Manticora, *Fab.*	M. maxillosa, Fab.
				2. Megacephala, *Lat.*	Cicindela megalocephala, Fab.
				3. Oxycheila, *Dej.*	Cicindela tristis, Fab.
				4. Euprosopus, *Lat.*	Cicindela 4-notata, Cuv.
				5. Cicindela, prop. *Lat.*	C. campestris, Lin.
				6. Ctenostoma, *Klüg.*	
				7. Therates, *Latr.*	
				8. Colliurus, *Lat.*	C. longicollis, Cuv.
				9. Tricondyla, *Lat.*	
	II. Carabici, *Lat.*	I. Truncatipennes.	Carabus, *L.*	1. Anthia, *Web.*	
				2. Graphipterus, *Lat.*	Anthia exclamationis, Fab.
				3. Aptinus, *Bon.*	Brachinus displosor, Duf.
				4. Brachinus, *Web.*	B. complanatus, Fab.
				5. Casnonia, *Latr.*	Attelabus Pennsylvanicus, Lin.
				6. Leptotrachelus, *Lat.*	Odacantha dorsalis, Fab.
				7. Odacantha, *Payk.*	O. melanura
				8. Zuphium, *Lat.*	Galerita olens, Fab.
				9. Polistichus, *Bon.*	Galerita fasciolata, Fab.

ORDER V.—Coleoptera (*continued*).

Section I.—Pentamera (*continued*).

Family.	*Tribe.*	*Section.*	*Genus.*	*Subgenus.*	*Example of Species.*
I. Carnivora (*continued*).	II. Carabici, *Lat.* (*continued*).	I. Truncatipennes (*cont.*).	Carabus, *L.*	10. Helluo, *Bon.*	H. costatus, Cuv.
				11. Drypta, *Latr.*	D. emarginata, Fab.
				12. Trichognatha, *Lat.*	T. marginipennis, St. Hil.
				13. Galerita, *Fab.*	G. occidentalis, Dej.
				14. Cordistes, *Lat.*	
				15. Ctenodactyla, *Dej.*	Ct. Chevrolatii, Dej.
				16. Agra, *Fab.*	
				17. Cymindis, *Lat.*	
				18. Calleida, *Dej.*	
				19. Demetrias, *Bon.*	
				20. Dromias, *Bon.*	
				21. Lebia, *Latr.*	Carabus cyanocephalus, Lin.
				22. Plochionus, *Dej.*	
				23. Orthogonius, *Dej.*	
		II. Bipartiti.		24. Coptodera, *Dej.*	
				25. Enceladus, *Bon.*	E. gigas, Bon.
				26. Siagona, *Latr.*	S. rufipes, Lat.
				27. Carenum, *Bon.*	Scarites cyaneus, Fab.
				28. Pasimachus, *Bon.*	
				29. Acanthoscelis, *Lat.*	Scarites ruficornis, Fab.
				30. Scarites, *Fab.*	S. Pyracmon, Bon.
				31. Oxygnathus, *Dej.*	Scarites elongatus, Wieden
				32. Oxystomus, *Lat.*	O. cylindricus, Dej.
				33. Camptodontus, *Dej.*	C. Cayennensis, Dej.
				34. Clivina, *Lat.*	Tenebrio fossor, Lin.
				35. Dyschirius, *Bon.*	D.
				36. Morio, *Lat.*	Harpalus monilicornis, Lat.
				37. Ozæna, *Oliv.*	O. dentipes, Oliv.
				38. Ditomus, *Bon.*	Carabus Calydonius, Fab.
				39. Apotomus, *Hoff.*	Scarites rufus, Oliv.
		III. Quadrimani.		40. Acinopus, *Zeigl.*	Harpalus megacephalus, Lat.
				41. Daptus, *Fisch.*	Acinopus maculipennis, Dej.
				42. Harpalus, *Dej.*	Carabus æneus, Fab.
				43. Ophonus, *Zeigl.*	
				44. Stenolophus, *Zeigl.*	S. vaporariorum, Dej.
				45. Acupalpus, *Lat.*	Carabus meridianus, Lin.

ORDER V.—Coleoptera (*continued*).

Section I.—Pentamera (*continued*).

Family.	*Tribe.*	*Section.*	*Genus.*	*Subgenus.*	*Example of Species.*
I. Carnivora.	II. Carabici, *Lat.* (*continued*).	IV. Simplicimani.	Carabus, *L.*	46. Zabrus, *Clairv.*	Carabus gibbus, Fab.
				47. Pogonus, *Zielg.*	P. halophilus, Germar.
				48. Tetragonoderus, *Dej.*	Harpalus circumfusus, Germar.
				49. Feronia, *Lat.*	Carabus picimanus, Dufts.
				50. Myas, *Cuv.*	M. chalybæus, Cuv.
				51. Cephalotes, *Bon.*	Carabus cephalotes, Fab.
				52. Stomis, *Clairv.*	S. pumicatus, Clair.
				53. Cetascopus, *Kirb.*	C. Hardwickii, Kirby
				54. Colpodes, *Macl.*	Col. brunneus, Macl.
				55. Mormolyce, *Hegem*	Mor. phyllodes, Hagem.
				56. Sphodrus, *Clairv.*	Carabus leucophthalmus, Lin.
				57. Ctenipus, *Latr.*	Sphodrus janthinus, Dej.
				58. Calathus, *Bon.*	Carabus melanocephalus, Fab.
				59. Taphria, *Bon.*	Carabus vivalis, Illig.
		V. Patellimani.		60. Dolichus, *Bon.*	Carabus flavicornis, Fab.
				61. Platynus, *Bon.*	P. complanatus, Bon.
				62. Agonum, *Bon.*	Harpalus viduus, Gyll.
				63. Anchomenus, *Bon.*	Carabus prasinus, Fab.
				64. Callistus, *Bon.*	Carabus lunatus, Fab.
				65. Oodes, *Bon.*	Carabus helopioides, Fab.
				66. Chlænius, *Bon.*	C. cinctus, Fab.
				67. Epomis, *Bon.*	Dinodes rufipes, Bon.
				68. Rembus, *Latr.*	R. politus, Dej.
				69. Dicælus, *Bon.*	
				70. Licinus, *Latr.*	Carabus agricola, Oliv.
				71. Badister, *Clairv.*	Carabus bipustulatus, Fab.
				72. Pelecium, *Kirby.*	P. cyanipes, Kirb.
				73. Cynthia, *Lat.*	
				74. Panagæus, *Lat.*	Carabus crux-major, Fab.
				75. Loricera, *Lat.*	L. ænea, Lat.
				76. Patrobus, *Meg.*	Carabus rufipes, Fab.
		VI. Grandipalpi.		77. Pamborus, *Latr.*	P. alternans, Cuv.
				78. Cychrus, *Latr.*	C. rostratus, Fab.
				79. Scaphinotus, *Lat.*	Cychrus elevatus, Fab.
				80. Sphæroderus, *Cuv.*	
				81. Tefflus, *Leach*	Carabus Megerlei, Fab.
				82. Procerus, *Meg.*	Carabus scabrosus, Fab.
				83. Procrustes, *Bon.*	Carabus coriaceus, Fab.

ORDER V.—Coleoptera (*continued*).

Section I.—Pentamera (*continued*).

Family.	*Tribe.*	*Section.*	*Genus.*	*Subgenus.*	*Example of Species.*
I. Carnivora (*continued*).	II. Carabici, *Lat.* (*cont.*)	VI. Grandipalpi. (*cont.*)	Carabus, *L.*	84. Carabus, *Lin.*	C. auratus, Lin.
				85. Calosoma, *Web.*	Carabus sycophanta, Lin.
				86. Pogonophorus, *Lat.*	Carabus spinibarbis, Fab.
				87. Nebria, *Latr.*	N. arenaria, Latr.
				88. Alphæus, *Bon.*	C. Helwigii, Pan.
				89. Omophron, *Latr.*	
				90. Elaphrus, *Fab.*	Carabus borealis, Fab.
				91. Notiophilus, *Dumer.*	Cicindela aquatica, Lin.
		II. Subulipalpi.		92. Bembidion, *Latr.*	Cicindela flavipes, Lin.
				93. Trechus, *Clairv.*	T. rubens, Clairv.
	III. Hydrocanthari.	....	I. Dytiscus, *Geoff.*	1. Dytiscus, *Cuv.*	D. latissimus, Lin.
				2. Colymbetes, *Clair.*	Dytiscus fuscus, Panz.
				3. Hygrobia, *Lat.*	Hydrachna Hermanni, Fab.
				4. Hydroporus, *Clair.*	Hydrachna gibba, Fab.
				5. Noterus, *Clairv.*	Dytiscus crassicornis, Fab.
				6. Haliplus, Latr.	Dytiscus fulvus, Fab.
			II. Gyrinus, *L.*		Gyrinus natator, Lin.
II. Brachelytra.		I. Fissilabra.	I. Staphylinus, *Lin.*	1. Oxyporus, *Fab.*	Staphylinus rufus, Lin.
				2. Astrapæus, *Grav.*	Staphylinus ulmi, Oliv.
				3. Staphylinus, *Fab.*	S. dilatatus, Fab.
				4. Pinophilus, *Grav.*	P. latipes, Grav.
				5. Lathrobium, *Grav.*	L. elongatum, Panz.
		II. Longipalpi.		6. Pæderus, *Fab.*	Staphylinus riparius, Panz.
				7. Stilicus, *Latr.*	
				8. Evæsthetus, *Grav.*	E. scaber, Grav.
				9. Stenus, *Latr.*	Staphylinus 2-guttatus, Lin.
		III. Denticrura.		10. Oxytelus, *Grav.*	
				11. Osorius, *Leach*	
				12. Zyrophorus, *Dalm.*	Z. fronticornis, Dalman.
				13. Prognatha, *Latr.*	Siagonum quadricorne, Kir. *&* Sp.
				14. Coprophilus, *Lat.*	Gmalium rugosum, Grav.
		IV. Depressa.		15. Omalium, *Grav.*	
				16. Lesteva, *Latr.*	
				17. Micropeplus	Omalium porcatum, Gyll.

ORDER V.—COLEOPTERA (*continued*).

SECTION I.—PENTAMERA (*continued*).

Family.	*Tribe.*	*Section.*	*Genus.*	*Subgenus.*	*Example of Species.*
II. MICROPTERA, *Graven.* (*cont.*)	III. Hydrocanthari.	IV. Depressa.	Staphylinus, *Lin.*	18. Proternus, *Lat.*	Omalium ovatum, Grav.
				19. Aleochara, *Grav*........	Staphylinus canaliculatus, Fab.
		V. Microcephala.		20. Lomechusa, *Grav*........	Aleochara bipunctata, Grav.
				21. Tachinus, *Grav*........	Oxyporus subterraneus, Fab.
				22. Tachyporus, *Grav.*	Oxyporus rufipes, Fab.

Family.	*Section.*	*Tribe.*	*Genus.*	*Subgenus.*	*Example of Species.*
III. SERRICORNES.	I. Sternoxi.	I. Buprestides.	Buprestis, *Lin.*	1. Buprestis, *Lin.*..	B. fasciculata, Lin.
				2. Aphanisticus, *Lat.*	Buprestis emarginata, Fab.
				3. Melasis, *Oliv*....	M. buprestoides, Oliv.
		II. Elaterides.	Elater, *Lin*...	1. Galba, *Latr.*	Melasis tuberculata ?
				2. Eucnemis, *Arh.*.	E. capucinus, Mann.
				3. Adelocera, *Lat.*.	Elater ovalis, Germ.
				4. Lissomus, *Dalm.*	L. punctulatus, Dalm.
				5. Chelonarium, *Fab.*	
				6. Throscus, *Latr.*	Elater domestoides, Lin.
				7. Cerophytum, *Lat.*	
				8. Cryptostoma, *Dej.*	Elater denticornis, Fab.
				9. Nematodes, *Lat.*	Eunemis filum, Manner.
				10. Hemirhipus, *Lat.*	Elater flabellicornis, Fab.
				11. Ctenicera, *Lat.*	Elater pectenicornis, Lat.
				12. Elater, *Cuv.*	E. noctilucus, Lin.
				13. Campylus, *Frisc.*.	Elater linearis, Lin.
				14. Phyllocerus, *Cuv.*	
	II. Malacodermes.	I. Cebrionites.	Cebrio, *Oliv*..	1. Physodactylus, *Fris.*........	P. Henningii, Hen.
				2. Cebrio, *Oliv*....	C. gigas, Fab.
				3. Anelastes, *Kirb.*	A. Drurii, Kirb.
				4. Callirhipis, *Lat*..	C. Dejeanii, Cuv.
				5. Sandalus, *Knoch*..	S. petrophya, Knog.
				6. Rhipicera, *Lat*...	R. marginata, Latr.
				7. Ptilodactyla, *Illig.*	P. elaterina, Illig.
				8. Dascillus, *Lat.* ..	Atopa cervina, Fab.
				9. Elodes, *Lat.*	
				10. Scyrtes, *Lat.*	
				11. Nycteus, *Lat.* .	Eucinetus hemorrhoïdalis, Germ.
				12. Eubria, *Zéig*..	Cyphon palustris, Germ.

ORDER V.—Coleoptera (*continued*).

Section I.—Pentamera (*continued*).

Family.	*Section.*	*Tribe.*	*Genus.*	*Subgenus.*	*Example of Species.*
III. Serricornes (*continued*).	II. Malacodermes (*continued*).	II. Lampyrides.	Lampyris, *Lin.*	1. Lycus, *Fab.*	L. latissimus, Fab.
				2. Dictyoptera, *Lat.*	Lampyris sanguinea, Lin.
				3. Omalisus, *Geoff.*	O. suturalis, Fab.
				4. Phengodes, *Hoff.*	
				5. Lampyris, *Cuv.*	L. noctiluca, Lin.
				6. Drilus, *Oliv.*	D. ater, Dej.
				7. Telephorus, *Sch.*	Cantharis fusca, Lin.
				8. Silis, *Meg.*	S. rubricollis, Tous.
				9. Malthinus, *Lat.*	Telephorus biguttatus, Oliv.
		III. Melyrides.	Melyris, *Fab.*	1. Melachius, *Fab.*	Cantharis ænea, Lin.
				2. Dasytes, *Payk.*	D. cœruleus, Fab.
				3. Zygia, *Fab.*	Z. oblonga, Fab.
				4. Melyris, *Fab.*	M. viridis, Fab.
				5. Pelocophorus, *Cuv.*	
				6. Diglobicerus, *Cuv.*	
		IV. Clerii.	Clerus, *Geoff.*	1. Cylidrus, *Latr.*	Trichodes cyaneus, Fab.
				2. Tillus, *Oliv.*	T. elongatus, Oliv.
				3. Priocera, *Kirb.*	P. variegata, Kirb.
				4. Axina, *Kirb.*	A. analis, Kirb.
				5. Eurypus, *Kirb.*	E. rubens, Kirb.
				6. Thanasimus, *Lat.*	Attellabus formicarius, Lin.
				7. Opilo, *Lat.*	Attelabus mollis, Lin.
				8. Clerus, *Geoff.*	Attelabus apiarius, Lin.
				9. Necrobia, *Latr.*	N. violacea, Oliv.
				10. Enoplium, *Latr.*	Tillus serraticornis, Oliv.
		V. Ptiniores.	Ptinus, *Lin.*	1. Ptinus, *Lin.*	P. fur, Lin.
				2. Gibbium, *Scop.*	Ptinas scotias, Fab.
				3. Ptilinus, *Geoff.*	P. pectinicornis, Fab.
				4. Xyletinus, *Latr.*	Ptilinus pallens, Germ.
				5. Dorcatoma, *Herbs.*	D. Dresdensis, Herbst.
				6. Anobium, *Fab.*	A. tesselatum, Fab.
	III. Xylotrogi.	Xylotrogi.	Lymexylon, *Fab.*	1. Atractocerus	Necydalis brevicornis, L.
				2. Hylecætus, *Latr.*	Meloe Marci, Lin.
				3. Lymexylon, *Fab.*	L. flavipes, Fab.
				4. Cupes, *Fab.*	C. capitata, Fab.
				5. Rhysodes, *Latr.*	R. exaratus, Dalm.
IV. Clavicornes.	I. Palpatores.	I. Palpatores.	Mastigus, *Cuv.*	1. Mastigus, *Hoff.*	M. palpalis, Latr.
				2. Scydmænus, *Lat.*	S. Helwigii, Latr.
		II. Histeroides.	Hister, *Lin.*	1. Hololepta, *Payk.*	
				2. Hister, *Cuv.*	H. unicolor, Lin.

ORDER I.—Coleoptera *(continued)*.

Section I.—Pentamera (*continued*).

Family.	*Section.*	*Tribe.*	*Genus.*	*Subgenus.*	*Example of Species.*
IV. Clavicornes (*continued*).	I. Palpatores (*continued*).	III. Silphales.	Silpha, *Lin.*	1. Sphærites, *Dufst.*	Hister glabratus, Fab.
				2. Necrophorus, *Fab.*	Silpha vespillo, Lin.
				3. Necrodes, *Wilk.*	Silpha littoralis, Fab.
				4. Silpha, *Lin.*	S. thoracica, Lin.
				5. Agyrtes, *Froch.*	A. castaneus, Gyll.
		IV. Scaphidites.	Scaphidium, *Cuv.*	1. Scaphidium, *Ol.*	
				2. Choleva, *Latr.*	Catops blapoides, Germ.
		V. Nitidulariæ.	Nitidula, *Cuv.*	1. Colobicus, *Latr.*	
				2. Thymalus, *Latr.*	T. limbatus, Cuv.
				3. Ips, *Fab.*	
				4. Nitidula, *Fab.*	N. ænea, Fab.
				5. Cercus, *Latr.*	
				6. Byturus, *Lat.*	
		VI. Engidites.	Dacne, *Cuv.*	1. Dacne, *Latr.*	
				2. Cryptophagus, *Herbst*	C. silaceus, Gyll.
		VII. Dermestini.	Dermestes, *Cuv.*	1. Aspidiphorus	Nitidula orbiculata, Gyllenh.
				2. Dermestes, *Lin.*	D. lardarius, Lin.
				3. Megotoma, *Herbs.*	Dermestes pellio, Lin.
				4. Limnichus, *Ziég.*	Byrrhus sericeus, Duft.
				5. Attagenus, *Lat.*	Dermestes serra, Fab.
				6. Trogoderma, *Lat.*	Anthrenus elongatus, Fab.
				7. Anthrenus, *Geoff.*	Byrrhus verbasci
				8. Globicornis, *Lat.*	Megatoma rufitarsis, Lat.
		VIII. Birrhi.	Byrrhus, *Lin.*	1. Nosodendron, *Lat.*	
				2. Byrrhus, *Lin.*	B. pilula, Lin.
				3. Trinodes, *Meg.*	Anthrenus hirtus, Fab.
	Acanthopoda.	I. Acanthopoda.	Heterocerus, *Bosc.*		H. marginatus, Fab.
		II. Macrodactyla.	Dryops, *Oliv.*	1. Potamophilus, *Ger.*	Parnus acuminatus, Fab.
				2. Drops, *Oliv.*	Dermestes auritus, Geoff.
				3. Elmis, *Latr.*	
				4. Macronychus, *Müll.*	M. quadrituberculatus, Müll.
				5. Georissus, *Latr.*	Pimelia pygmæa, Fab.

ORDER V.—COLEOPTERA (*continued*).

SECTION I.—PENTAMERA (*continued*).

Family.	*Tribe.*	*Genus.*	*Section.*	*Subgenus.*	*Example of Species.*
V. PALPICORNES.	I. Hydrophilii.	Hydrophilus, *Geoff.*	......	1. Elephorus, *Fab.*	E. elongatus, Fab.
				2. Hydrochus, *Ger.*	Elephorus elongatus, Fab.
				3. Ochthebius, *Lea.*	Elephorus pygmæus, Fab.
				4. Hydræna, *Kuleg.*	Elephorus minimus, Fab.
				5. Spercheus, *Fab.*	S. emarginatus, Fab.
				6. Globaria, *Cuv.*	G. Leachii, Cuv.
				7. Hydrophilus, *Geoff.*	H. piceus, Fab.
				8. Limnebius, *Lea.*	Hydrophilus griseus, Fab.
				9. Hydrobius, *Cuv.*	H. scarabæoides, Cuv.
				10. Berosus, *Cuv.*	Hydrobius luridus, Fab.
	II. Sphæridiota.	Sphæridium, *Fab.*	....	....	Dermestes scarabæoides, Lin.
VI. LAMELLICORNES.	I. Scarabæides.	Scarabæus, *Lin.*	I. Coprophagi..	1. Ateuchus, *Web.*	A. sacer, Oliv.
				2. Gymnopleurus, *Illig.*	Ateuchus sinuatus, Fab.
				3. Sisyphus, *Latr.*	Ateuchus Schæfferi, Fab.
				4. Circellium, *Latr.*	Ateuchus Bacchus, Fab.
				5. Coprobius, *Lat.*	Ateuchus volvens, Fab.
				6. Eurysternus, *Cuv.*	
				7. Oniticellus, *Ziég.*	
				8. Onthophagus, *Lat.*	S. taurus, Lin.
				9. Onitis, *Fab.*	
				10. Phanæus, *Mc L.*	
				11. Copris, *Geoff.*	Scarabæus lunaris, Lin.
				12. Aphodius, *Illig.*	S. fimetarius, Lin.
				13. Psammodius, *Gyl.*	
			II. Arenicoli..	14. Ægialia, *Lat.*	Psammodius arenarius, Gyll.
				15. Chiron, *Mc L.*	Sinodendron digitatur, Fab.
				16. Lethrus, *Scop.*	L. cephalotes, Fab.
				17. Geotrupes	S. typhæus, Lin.
				18. Ochodæus, *Meg.*	Melolontha chrysomelina, Fab.
				19. Athyreus, *Mc L.*	
				20. Elephastomus, *Mc L.*	Scarabæus proboscidens, Schr.

ORDER V.—COLEOPTERA *(continued)*.

SECTION I.—PENTAMERA *(continued)*.

Family.	*Tribe.*	*Genus.*	*Section.*	*Subgenus.*	*Example of Species.*
VI. LAMELLICORNES *(continued)*.	I. Scarabæides *(continued)*.	Scarabæus, *Lin.* *(continued)*.	II. Arenicoli (*cont.*).	21. Bolboceras, *Kirb.*	S. mobilicornis, Fab.
				22. Hybosorus, *Mc L.*	Geotrupes orator, Fab.
				23. Acanthocerus, *Mc L.*	A. æneus, Lefebrere de Cerisy
				24. Trox, *Fab.* & *Oliv.*	Trox horridus, Fab.
			III. Xylophili.	25. Oryctes, *Illig.*	S. nasicornis, Lin.
				26. Agacephala, *Manh.*	G. Ægeon, Fab.
				27. Scarabæus, *Fab.*	S. Hercules, Lin.
				28. Phileurus, *Lat.*	G. dydimus, Fab.
				29. Hexodon, *Oliv.*	
				30. Cyclocephala, *Lat.*	Melolontha geminata, Fab.
				31. Chrysophora, *Dej.*	Melolontha chrysochlora, Lat.
				32. Rutela, *Lat.*	G. pelidnota, Cuv. *Encyc. Method.*
				33. Macraspis, *Mc L.*	
				34. Chasmodia, *Mc L.*	
				35. Ometis, *Lat.*	Rutela cetonioides, *Encyc. Method.*
			IV. Phyllophagi	36. Pachypus, *Dej.*	Geotrupes excavatus, Fab.
				37. Amblyteres, *Mac L.*	
				38. Anoplognathus, *Le.*	
				39. Leucothyreus, *Mac L.*	Melolontha sulcicollis, Mac L.
				40. Apogonia, *Kirb.*	A. gemellata, Kirb.
				41. Geniates, *Kirb.*	Geniates barbatus, Kirb.
				42. Melolontha, *Fab.*	Scarabæus fullo, Lin.
				43. Rhisotrogus, *Lat.*	Melolontha solstitialis, Fab.
				44. Ceraspis, *Lepel.*	C. pruinosa, Lepel.
				45. Arcodes, *Leach*	
				46. Dasyus, *Lep.* & *S.*	
				47. Serica, *Mac L.*	M. brunnea, Fab.
				48. Diphucephala, *Dej.*	M. colaspidoides, Schæ.
				49. Microdactylus, *Lat.*	M. subspinosa, Fab.
				50. Plectris, *Lep.* & *Ser.*	
				51 Popilia, *Leach*	Trichius 2-punctatus, Fab.
				52. Euchlora, *Mac L.*	M. viridis, Fab.

ORDER V.—Coleoptera (*continued*).

Section I.—Pentamera (*continued*).

Family.	*Tribe.*	*Genus.*	*Section.*	*Subgenus.*	*Example of Species.*
VI. Lamellicornes (*continued*).	I. Scarabæides (*continued*).	Scarabæus, *Lin.* (*continued*).	IV. Phyllophagi (*cont.*)	53. Anisoplia, *Meg.*	M. horticola, Fab.
				54. Lepisia, *Lep. & Ser.*	
				55. Dicrania, *Lep. & S.*	
				56. Hoplia, *Illig.*	H. formosa, Illig.
				57. Monocheles, *Illig.*	
			V. Anthobii..	58. Glaphyrus, *Lat.*	
				59. Amphicoma, *Lat.*	
				60. Anthipna, *Esch.*	Amphicoma abdominalis, Lat.
				61. Chasmopterus, *Dej.*	
				62. Chasme, *Lep. & S.*	
				63. Dicheles, *Lep. & S.*	
				64. Lepitrix, *Lep. & S.*	
				65. Pachycnemus, *Lep. & S.*	
				66. Anisonyx, *Lat.*	
			VI. Melitophili	67. Trichius, *Fab.*	Scarabæus nobilis, Lin.
				68. Platygenia, *Mac L.*	Trichius barbatus, Schæn.
				69. Cremastocheilus, *Kn.*	Cetonia elongata, Oliv. ?
				70. Goliath, *Lam.*	
				71. Cetonia, *Fab.*	Scarabæus auratus, Lin.
	II. Lucanides.	Lucanus, *Cuv.*	....	1. Sinodendron, *Fab.*	Scarabæus cylindricus, Lin.
				2. Æsalus, *Fab.*	Æ. scarabæoïdes, Fab.
				3. Lamprima, *Lat.*	Lethrus æneus, Fab.
				4. Ryssonotus, *Mac L.*	Lucanus nebulosus, Kirb.
				5. Pholidotus, *Mac L.*	Lamprima Humboldti, Schæ.
				6. Lucanus, *Lin.*	L. cervus, Lin.
				7. Platycerus, *Lat.*	Lucanus parallelipedus, Fab.
				8. Syndesus, *Mac L.*	Synodendron cornutum, Fab.
		Passalus, *Fab.*	....	Paxillus, *Mac L.*	

ORDER V.—COLEOPTERA (*continued*).

SECTION II.—HETEROMERA.

Family.	*Tribe.*	*Genus.*	*Subgenus.*	*Example of Species*
I. MELASOMA.	I. Pimeliariæ.	Pimelia, *Fab.*	1. Pimelia, *Cuv.*	P. 2-punctata.
			2. Erodius, *Latr.*	E. bilineatus, Oliv.
			3. Zophosis, *Latr.*	
			4. Nyctelia, *Latr.*	Zophosis nodosa, Germ.
			5. Hegeter, *Latr.*	Pimelia silphoïdes? Oliv.
			6. Tentyria, *Latr.*	Akis glabra, Fab.
			7. Akis, *Fab.*	A. collaris, Fab.
			8. Elenophorus, *Meg. & Dej.*	
			9. Eurychora, *Thunb.*	
			10. Adelostoma, *Dup.*	A. sulcatum. Dup.
			11. Tagenia, *Lat.*	
			12. Psammetichus, *Lat.*	
			13. Scaurus, *Fab.*	
			14. Scotobius, *Germ.*	
			15. Sepidium, *Fab.*	S. tricuspidatum, Fab.
			16. Trachynotus, *Lat.*	Sepidium reticulatum, Fab.
			17. Moluris, *Lat.*	Pimelia striata, Fab.
	II. Blapsides.	Blaps, *Cuv.*	1. Oxura, *Kirb.*	O. setosa, Kirb.
			2. Acanthomera, *Lat.*	Pimelia dentipes, Fab.
			3. Misolampus, *Lat.*	Pimelia gibbula, Herbs.
			4. Blaps, *Fab*	B. mortisaga, Oliv.
			5. Gonopus, *Lat.*	Blaps-tibialis, Fab.
			6. Heteroscelis, *Lat.*	Platynotus reticulatus, Oliv.
			7. Machla, *Herbs.*	Platynotus serratus, Fab.
			8. Scotinus, *Kirb.*	S. crenicollis, Kirb.
			9. Asida, *Lat.*	Platynotus lavigatus, Fab.
			10. Pedinus, *Latr.*	Blaps clathrata, Fab.
			11. Isocerus, *Meg. & Dej.*	
			12. Blaptinus, *Dej.*	Blaps tibidens, Schœ.
			13. Platyscelis, *Lat.*	
	III. Tenebrionites.	Tenebrio, *Cuv.*	1. Crypticus, *Lat.*	Pedinus glaber, Lat.
			2. Opatrum, *Fab.*	Silpha sabulosa, Lin.
			3. Corticus, *Dej.*	Sarrotrium seltis, Germ.
			4. Orthocerus, *Lat.*	Hispa mutica, Lin.
			5. Chiroscelis, *Lam.*	C. bifinestra, Lam.
			6. Toxicum, *Lat.*	T. richesianum, Lat.
			7. Boros, *Herbs.*	B. corticalis, Gyll.
			8. Calcar, *Dej.*	Trogosita calcar, Fab.
			9. Upis, *Fab.*	U. ceramboides, Fab.
			10. Tenebrio, *Lin.*	T. molitor, Lin.
			11. Heterotarsus, *Lat.*	

ORDER V.—Coleoptera (*continued*).

Section II.—Heteromera (*continued*).

Family.	*Tribe.*	*Genus.*	*Subgenus.*	*Example of Species.*
II. Taxicornes.	I. Diaperiales.	Diaperis, *Cuv.*	1. Phaleria, *Lat.*	P. furcifera, Dalm.
			2. Diaperis, *Geoff.*	Chrysomela boleti, Lin.
			3. Hypophlæus, *Fab.*	H. castaneus, Fab.
			4. Trachyscelis, *Lat.*	
			5. Leiodes, *Lat.*	Anisostoma humerale, Gyl.
			6. Tetratoma, *Herb.*	
			7. Eledona, *Lat.*	
	II. Cossyphenes.	Cossyphus, *Oliv.*	1. Cossyphus, *Oliv.*	
			2. Helæus, *Latr.*	H. Brownii, Kirb.
			3. Nilio, *Latr.*	Ægithus marginatus, Fab.
III. Stenelytra.	I. Helopii.	Helops, *Fab.*	1. Epitragus, *Latr.*	
			2. Cnodalon, *Latr.*	
			3. Campsia, *Lep. & Ser.*	C. nitida, Lep. *&* Ser.
			4. Spheniscus, *Kirb.*	S. erotyloides, Kirb.
			5. Acanthopus, *Meg. & Dej.*	Helops dentipes, Panz.
			6. Amarygmus, *Dalm.*	Helops ater, Fab.
			7. Sphœrotus, *Kirb.*	S. curvipes, Kirb.
			8. Adelium, *Kirb.*	A. calosomoides, Kirb.
			9. Helops, *Fab.*	H. cœruleus, Fab.
			10. Læna, Meg., *Dej.*	L. pimelia, Dej.
			11. Stenotrachelus, *Cuv.*	Dryops ænea, Payk.
			12. Strongylium, *Kirb.*	S. Chalconatum, Kirb.
			13. Pytho, *Lat.*	
	II. Cistelides.	Cistela, *Fab.*	1. Lystronichus, *Lab.*	Helops equestris, Fab.
			2. Cistela, *Fab.*	Chrysomela ceramboides, Lin.
			3. Mycetochares, *Lat.*	Helops barbatus, Lat.
			4. Allecula, *Fab.*	A. Contracta, Ger.
	III. Serropalpides.	Dircæa, *Fab.*	1. Orchesia, *Latr.*	
			2. Eustrophus, *Illig.*	Mycetophagus dermestoides, Fab.
			3. Hallomenus, *Payk.*	
			4. Dircæa, *Fab.*	
			5. Melandrya, *Fab.*	M. ruficollis, Gyll.
			6. Hypulus, *Payk.*	Dircæa bifasciata, Gyl.
			7. Serropalpus, *Hellw.*	
			8. Conopalpus, *Gyll.*	

ORDER V.—COLEOPTERA (*continued*).

SECTION II.—HETEROMERA (*continued*).

Family.	*Tribe.*	*Genus.*	*Subgenus.*	*Example of Species.*
III. STENELYTRA (*continued*).	IV. Oedemerites.	Oedemera, *Oliv.*	1. Nothus, *Ziégl.*	
			2. Calopus, *Fab.*	C. serraticornis, Fab.
			3. Sparedrus, *Meg.*	Calopus testaceus, Schoe.
			4. Dytilus, *Fisch.*	D. helopioides, Fis.
			5. Oedemera, *Oliv.*	
	V. Rhinchostoma.	Mycterus, *Cuv.*	1. Stenostoma, *Lat.*	Oedemera rostrata, Lat.
			2. Mycterus, *Clairv.*	
			3. Rhinosimus, *Lat.*	
IV. TRACHELIDES.	I. Lagriariæ.	Lagria, *Cuv.*	1. Lagria, *Fab.*	
			2. Statyra, *Cuv.*	
			3. Hemipeplus, *Cuv.?*	
	II. Pyrochroides.	Pyrochroa, *Geoff.*	1. Dendroides, *Lat.*	D. thoracicus, Fisc.
			2. Pyrochroa, *Cuv.*	
	III. Mordellonæ.	Mordella, *Cuv.*	1. Ripiphorus, *Bosc.*	
			2. Myodites, *Latr.*	
			3. Pelocotoma, *Fisc.*	
			4. Mordella, *Lin.*	M. aculeata, Lin.
			5. Anaspis, *Geoff.*	A. frontalis, Fisch.
	IV. Anthicides.	Notoxus, *Cuv.*	1. Scraptia, *Latr.*	
			2. Steropes, *Stev.*	S. caspius, Stev.
			3. Notoxus, *Geoff.*	Meloë monoceros, Lin.
	V. Horiales.	Horia, *Cuv.*	1. Horia, *Fab.*	
			2. Cissites, *Cuv.*	

ORDER V.—COLEOPTERA (*continued*).

SECTION II.—HETEROMERA (*continued*).

Family.	*Tribe.*	*Genus.*	*Subgenus.*	*Example of Species.*
IV. TRACHELIDES (*cont*).	VI. Cantharidiæ.	Meloe, *Lin.*	1. Cerocoma, *Geoff.*	Meloë Schoefferi, Lin.
			2. Hycleus, Latr.	Mylabris impunctata, Oliv.
			3. Mylabris, *Fab.*	M. Chicorii, Lin.
			4. Oenas, *Lat.*	
			5. Meloë, *Lin.*	M. proscarabæus, Lin.
			6. Tetraonyx, *Lat.*	Apalus quadrimaculatus, Fab.
			7. Cantharis, *Geoff.*	Meloe vesicatorius, Lin.
			8. Zonitis, *Fab.*	
			9. Nemognathus, *Lat.*	Zonitis chrysomelina, Fab.
			10. Gnathium, *Kirb.*	G. Francilloni, Kirb.
			11. Sitaris, *Latr.*	Apalus bimaculatus, Fab.

SECTION III.—TETRAMERA.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. RHYNCHOPHORA.	Bruchus, *Lin.*	1. Anthribus, *Geof.*	Rhinomacer lepturoides, Fab.
		2. Bruchus, *Fab.*	B. pisi, Lin.
		3. Rhæbus, *Fisch.*	R. Gebleri, Fis.
		4. Xylophilus, *Bon.*	Anthicus populneus, Gyl.
	Attelabus, *Lin.*	1. Apoderus, *Cuv.*	Rynchites Bacchus, Herbst.
		2. Attelabus, *Cuv.*	
		3. Rhynchites, *Cuv.*	
		4. Apion, *Cuv.*	
		5. Rhinotia, *Kirb.*	
		6. Eurhinus	
		7. Tubicenus, *Dej.*	
	Brentus, *Fab.*	1. Brentus, *Cuv.*	B. Halica? Cuv.
		2. Ulocerus, *Sch.*	
		3. Cylas, *Lat.*	
	Brachycerus, *Cuv.*		
	Curculio, *Cuv*	1. Cyclomus, *Cuv.*	
		2. Curculio, *Cuv.*	C. imperialis, Fab.
		3. Leptosomus, *Sch.*	Curculio acuminatus, Fab.
		4. Othiorhyncus, *Cuv.*	

ORDER V.—COLEOPTERA (*continued*).

SECTION III.—TETRAMERA (*continued*).

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. RHYNCHOPHORA (*continued*).	Curculio, *Cuv.* (*cont.*)	5. Omias, *Cuv.*	
		6. Pachyrhyncus, *Cuv.*	
		7. Psalidium, *Cuv.*	
		8. Thylacites, *Cuv.*	
		9. Syzygops, *Cuv.*	
		10. Hyphantus, *Cuv.*	
		11. Myniops, *Schœ.*	
		12. Liparus	
		13. Hypera, *Germ.*	Curculio tamarisci, Fab.
		14. Hylobius, *Cuv.*	
		15. Cleonus, *Cuv.*	
	Lixus, *Fab.*		L. paraplecticus, Cuv.
	Rhynchænus, *Fab.*	1. Tamnophilus, *Cuv.*	
		2. Bagous, *Cuv.*	
		3. Brachypus, *Cuv.*	
		4. Balaninus, *Cuv.*	Rynchænus nucum, Fab.
		5. Rynchænus, *Cuv.*	
		6. Sybines, *Cuv.*	
		7. Myorhinus, *Schœ.*	
		8. Cionus, *Clairv.*	
		9. Orchestes, *Illig.*	
		10. Ramphus, *Clair.*	
		11. Amerhinus, *Cuv.*	
		12. Baridius, *Cuv.*	
		13. Camptorhyinchus, *Cuv.*	
		14. Centrinus, *Cuv.*	
		15. Zygops	
		16. Ceutorhynchus, *Cuv.*	
		17. Hydaticus, *Cuv.*	
		18. Orobitis, *Cuv.*	
		19. Cryptorynchus, *Cuv.*	
		20. Tylode, *Cuv.*	Rhynchœnus ptinoides, Gyll.
	Calandra, *Cuv.*	1. Anchonus, *Schoe.*	
		2. Orthochætes, *Ger.*	
		3. Rhina, *Lat.*	R. barbirostris, Lat.
		4. Calandra, *Cuv.*	Curculio granarius, Lin.
		5. Cossonus, *Clairv.*	
		6. Dryopthorus, *Schoe.*	

ORDER V.—Coleoptera (*continued*).

Section III.—Tetramera (*continued*).

Family.	*Tribe.*	*Genus.*	*Subgenus.*	*Example of Species.*
II. Xylophagi.	..	Scolytus, *Geoff.*	1. Hylurgus, *Lat.*	
			2. Hylesinus, *Fab.*	
			3. Scolytus, *Geoff.*	
			4. Camptocerus, *Dej.*	Hylesinus Æneipennis, Fab.
			5. Ploiotribus, *Lat.*	
			6. Tomicus, *Lat.*	
			7. Platybus, *Herbs.*	P. Flavicornis ? Fab.
	..	Paussus, *Lin.*	1. Paussus, *Cuv*	P. bucephalus, Sch.
			2. Cerapterus, *Swed.*	
	..	Bostrichus, *Cuv.*	1. Bostrichus, *Geoff.*	Dermestes capucinus, Lin.
			2. Psoa, *Fab.*	
			3. Cis, *Lat.*	
			4. Nemosoma, *Desm.*	
	..	Monotoma, *Cuv.*	1. Synchita, *Helw.*	Cerylon terebrans, Lat.
			2. Cerylon, *Lat.*	C. histeroides, Lat.
			3. Rhyzophagus, *Herb.*	
			4. Monotoma, *Herbs.*	Cerylon picipes, Gyl.
	..	Lyctus, *Cuv.*	1. Lyctus, *Fab.*	
			2. Diodesma, *Meg.*	D. subterranea, Dej.
			3. Bitoma, *Herbs.*	
	..	Mycetophagus, *Fab.*	1. Colydium, *Fab.*	
			2. Mycetophagus, *Fab.*	
			3. Triphyllus, Meg.	
			4. Meryx, *Lat.*	
			5. Dasycerus, *Brong.*	
			6. Latridius, *Herbs.*	
			7. Silvanus, *Lat.*	
	..	Trogosita, *Oliv.*	1. Trogosita, *Fab.*	Tenebrio Mauritanicus, Lin.
			2. Prostomis, *Lat.*	Trogosita mandibularis, Fab.
			3. Passandra, *Dalm.*	
III. Platysoma.	..	Cucujus, *Fab.*	1. Cucujus, *Cuv.*	C. clavipes, Oliv.
			2. Dendrophagus, *Gyl.*	
			3. Uleoiota, *Latr.*	U. flavipes, Duf.
IV. Longicornes.	Prionii.	I. Parandra, *Lat.*		
		II. Spondylis, *Fab.*		Attelabus buprestoides, Lin.
		III. Prionus, *Geoff.*		P. cervicornis, Cuv.

ORDER V.—COLEOPTERA (*continued*).

SECTION III.—TETRAMERA (*continued*).

Family.	*Tribe.*	*Genus.*	*Subgenus.*	*Example of Species.*
IV. LONGICORNES (*continued*).	II. Cerambycini.	Cerambyx, *Cuv.*	1. Lissonotus, *Dalm.*	
			2. Megaderus, *Dej.*	Callidium stigma, Fab.
			3. Dorcacerus, *Dej.*	Cerambyx barbatus, Oliv.
			4. Trachyderes, *Dal.*	
			5. Lophonocerus, *Lat.*	Cerambyx barbicornis, Oliv.
			6. Ctenodes, *Oliv.*	Etonote zonota, Klüg.
			7. Phœnicocerus, *Lat.*	P. Dejeanii, Cuv.
			8. Callichroma, *Lat.*	Cerambyx moschatus, Lin.
			9. Acanthoptera, *Lat.*	Cerambyx Kœhleri, Fab.
			10. Cerambyx, *Lin.*	C. heros, Fab.
			11. Callidium, *Cuv.*	C. sanguineus, L.
			12. Certalium, *Meg.*	C. ruficolle, Fab.
			13. Clitus, *Fab.*	
		Obrium		
		Rhinotragus, *Dalm.*		Stenopterus luridus, Klüg.
		Necydalis, *Lin.*	1. Stenopterus, *Illig.*	
			2. Necydalis, *Cuv.*	Necydalis major, Lin.
		Distichocera, *Kirb.*		
		Tmesisternus, *Lat.*		
		Tragocerus, *Dej.*		
		Leptocera, *Dej.*		
		Acrocinus, *Illig*		Cerambyx longimanus, Lin.
	III. Lamiariæ.	Lamia, *Cuv.*	1. Acanthocinus, *Meg.*	L. œdilis, Fab.
			2. Tapeina, *Lep.*	
			3. Pogonocherus, *Meg.*	
			4. Tetraopes, *Cuv.*	Cerambyx maxillosus, Oliv.
			5. Monochamus, *Dahl.*	
			6. Lamia, *Fab.*	L. curculionoides, Meg.
			7. Dorcadion	
			8. Parmena, *Meg.*	P. tristis, Meg.
			9. Saperda, *Fab.*	
			10. Gnoma, *Fab.*	S. longicollis, Cuv.
			11. Adesmus, *Dej.*	
			12. Apomecynas, *Dej.*	
			13. Colobothea, *Dej.*	

ORDER V.—Coleoptera (*continued*).

Section III.—Tetramera (*continued*).

Family.	*Tribe.*	*Genus.*	*Subgenus.*	*Example of Species.*
IV. Longicornes.	IV. Lepturetæ.	Leptura, *Lin.*	1. Desmocerus, *Dej.*	Stenocorus cyaneus, Fab.
			2. Vesperus, *Dej.*	Stenocorus strepens, Oliv.
			3. Rhagium, *Dahl.*	R. bifasciatum, Fab.
			4. Rhamnusium, *Meg.*	Rhagium salicis, Fab.
			5. Toxotus, *Meg.*	Leptura virginea, Fab.
			6. Stenoderus, *Dej.*	Leptura ceramboides, Kirb.
			7. Leptura, *Dej.*	L. armata, Gyll.
V. Eupoda.	I. Sagrides.	Sagra, *Cuv.*	1. Megalopus, *Fab.*	
			2. Sagra, prop. *Fab.*	
			3. Orsodacna, *Lat.*	
			4. Psammœcus, *Bon.*	Anthicus 2-punctatus, Fab.
	II. Criocerides.	Crioceris, *Geoff.*	1. Donacia, *Fab.*	
			2. Hæmonia, *Meg.*	Donacia equiseti, Fab.
			3. Petauristes, *Lat.*	Lema varia, Fab.
			4. Crioceris, prop. *Geoff.*	Chrysomela merdigera, Lin.
			5. Anchenia, *Thunb.*	Crioceris subspinosa, Fab.
			6. Megascelis, *Dej.*	Lema vittata, Fab.
VI. Cyclica.	I. Cassidariæ.	Hispa, *Lin.*	1. Alurnus, *Fab.*	L'hispe bordée, Cuv.
			2. Hispa, *Lin.*	H. atra, Lin.
			3. Chalepus, *Thunb.*	Hispa spinipes, Fab.
		Cassida, *Lin.*	1. Imatidium, *Fab.*	Cassida equestris, Fab.
			2. Cassida, prop.	
	II. Chrysomelinæ.	Cryptocephalus, *Cuv.*	1. Clythra, *Leach*	Chrysomela quadripunctata, Lin.
			2. Chlamys, *Knoch.*	
			3. Lamprosoma, *Kirb.*	L. bicolor, Kirb.
			4. Cryptocephalus, *Geof.*	Chrysomela sericea, Lin.
			5. Choragus, *Kirb.*	C. Schoppardi, Kirb.
			6. Euryope, *Dalm.*	E. rubra, Lat.
			7. Eumolpus, *Kug.*	E. vitis, Fab.
		Chrysomela, *Cuv.*	1. Colapsis, *Fab.*	
			2. Podontia, *Dalm.*	Chrysomela 14-punctata, Fab.
			3. Phyllocharis, *Dalm.*	Chrysomela cyanipes, Fab.
			4. Doryphora, *Ilig.*	
			5. Paropsis, *Oliv.*	
			6. Timarcha, *Meg.*	Tenebrio lævigatus, Lin.
			7. Chrysomela, *Cuv.*	C. sanguinolenta, Lin.
			8. Phœdon, *Meg.*	Chrysomela raphani, Dahl.
			9. Prasocuris, *Lat.*	P. aucta, Cuv.

ORDER V.—COLEOPTERA (*continued*).

SECTION III.—TETRAMERA (*continued*).

Family.	*Tribe.*	*Genus.*	*Subgenus.*	*Example of Species.*
VI. CYCLICA (*continued*).	III. Galerucitæ.	Galeruca, *Cuv.*	1. Adorium, *Fab.*	
			2. Luperus, *Geoff.*	
			3. Galereuca, *Geoff.*	Chrysomela calmariensis, Lin.
			4. Altica, *Geoff.*	
			5. Octogonotes, *Drap.*	
			6. Oedionychis, *Lat.*	A. marginella, Oliv.
			7. Psylliodes, *Lat.*	
			8. Dibolia, *Lat.*	Altica Echii, Oliv.
			9. Altica, *Lat.* ..	Chrysomela oleracea, Lin.
			10. Longitarsus, *Lat.*	Altica lurida, Oliv.
VII. CLAVIPALPI.	..	Erotylus, *Fab.*	1. Erotylus, *Fab.*	
			2. Triplax, *Fab.* ..	Tritoma bipustulatum, Oliv.
			3. Languria, *Lat.*	Trogosita elongata, Fab.
			4. Phalacrus, *Payk.*	
			5. Agathidium, *Illig.*	

SECTION IV.—TRIMERA.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. FUNGICOLÆ.	Eumorphus, *Cuv.*	1. Eumorphus, *Web.*	
		2. Dapsa, *Ziég.* ..	Eumorpus Kirbyanus, Oliv.
		3. Endomychus, *Web.*	
		4. Lycoperdina, *Lat.*	
II. APHIDIPHAGI.	Coccinella, *Cuv.* ...	1. Lithophilus, *Trôhl.*	L. ruficollis, Dahl.
		2. Coccinella, *Lin.* ..	C. 7-punctata, Lin.
	Clypeaster, *Andersche*	....	C. pusillus, Dej.
III. PSELAPHII.	Pselaphus, *Herbst.*	1. Chennium, *Lat.* ..	C. bituberculatum, Lat.
		2. Dionix, *Dej.*	
		3. Pselaphus, *Herbs.*	P. Herbstü, Reich.
		4. Bithynus, *Leach*	Pselaphus securiger, Leach.

ORDER V.—Coleoptera (*continued*).

Section IV.—Trimera (*continued*).

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
III. Pselaphii.	Pselphus, *Herbst.* (*cont.*)	5. Arcopagus, *Leach*	Pselaphus glabricollis, Reich.
		6. Ctenistes, *Reich.*	
		7. Bryaxis, *Leach.*	
	Claviger, *Cuv*	1. Claviger, *Cuv.*	
		2. Articerus, *Dalm.*	A. armatus, Dalm.

ORDER VI.—Orthoptera.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. Cursoria.	Forficula, *Lin*		F. auricularia, Lin.
	Blatta, *Lin*		B. orientalis, Lin.
	Mantis, *Lin.*	1. Empusa, *Iliger.*	Mantis religiosa, Lin.
		2. Mantis, *Cuv.*	
		3. Spectrum, *Stoll.*	
		4. Phasma, *Fab.*	P. rossia, Fab.
		5. Phyllium, *Illig.*	Mantis siccifolia, Lin.
II. Saltatoria.	Gryllus, *Lin.*	1. Gryllo-talpa, *Lat.*	Gryllus-gryllo-talpa, Lin.
		2. Tridactylus, *Oliv.*	Xya variegata, Illig.
		3. Gryllus, *Cuv.*	G. campestris, Lin.
		4. Myrmecophila, *Char.*	Blata acervorum, Panz.
	Locusta, *Geoff.*		L. viridissima, Fab.
	Acrydium, *Geoff.*	1. Pneumora, *Thunb.*	P. sexguttata, Thunb.
		2. Proscopia, *Klüg.*	
		3. Truxalis, *Fab.*	G. nasutus, Lin.
		4. Tetrix, *Lat.*	Acrydium subulatum, De Géer.

ORDER VII.—HEMIPTERA.

SECTION I.—HETEROPTERA.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. GEOCORISÆ.	Cimex, *Lin.*	1. Scutellera, *Lam.*	Cimex lineatus, Lin.
		2. Pentatoma, *Oliv.*	Cimex ornatus, Lin.
		3. Tesseratoma, *Pel.*	Edessa papillosa, Fab.
		4. Phlœa, *Lep. & Ser.*	
		5. Coreus, *Fab.*	Cimex marginatus, Lin.
		6. Holhymenia, *Lep. & Ser.*	Lygæus biclavatus, Fab.
		7. Pachylis, *Lep. & Ser.*	
		8. Anisoscelis, *Lat.*	L. membranaceus, Fab.
		9. Alydus, *Fab.*	
		10. Leptocorisa, *Lat.*	
		11. Neides, *Lat.*	
		12. Lygæus, *Fab.*	Cimex equestris, Lin.
		13. Salda, *Fab.*	S. atra, Fab.
		14. Myodocha, *Latr.*	
		15. Astemma, *Cuv.*	Salda pallicornis, Fab.
		16. Miris, *Fab.*	
		17. Capsus, *Fab.*	
		18. Heterotoma, *Lat.*	Capsus spissicornis, Fab.
		19. Acanthia, *Fab.*	
		20. Syrtis, *Fab.*	S. manicata, Fab.
		21. Tingis, *Fab.*	T. pyri, Fab.
		22. Aradus, *Fab.*	
		23. Cimex, *Latr.*	C. lectularius, Lin.
		24. Reduvius, *Fab.*	
		25. Holoptilus, *Lep. & Ser.*	
		26. Nabis, *Lat.*	Cimex personatus, Lin.
		27. Zelus, *Fab.*	
		28. Ploiaria, *Scop.*	Gerris vagabundus, Fab.
		29. Leptopus, *Lat.*	Salda striata, Lat.
		30. Hydrometra, *Fab.*	
		31. Gerris, *Lat.*	
		32. Velia, *Lat.*	
II. HYDROCORISÆ.	Nepa, *Lin.*	1. Galgulus, *Lat.*	Naucoris oculata, Fab.
		2. Naucoris, *Geoff.*	Nepa cimicoides, Lin.
		3. Belostoma, *Lat.*	Nepa grandis, Fab.
		4. Nepa	
		5. Ranatra, *Fab.*	Nepa linearis, Lin.
	Notonecta, *Lin.*	1. Corixa, *Geoff.*	Notonecta striata, Lin.
		2. Notonecta, *Geoff.*	N. glauca, Lin.

ORDER VII.—Hemiptera (*continued*).

Section II.—Homoptera.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. Cicadariæ.	Cicada, *Oliv.*		C. orni, Lin.
	Fulgora, *Lin.*	1. Otiocerus, *Kirb.*	O. Coquebertii
		2. Lystra, *Fab.*	
		3. Cixius, *Latr.*	
		4. Tettigometra, *Cuv.*	
		5. Pæciloptera, *Lat.*	
		6. Issus, *Fab.*	
		7. Anotia, *Kirb.*	
		8. Asiraca, *Latr.*	
		9. Delphax, *Fab.*	
		10. Derbe, *Fab.*	
	Cicadella, *Lin.*	1. Membracis, *Fab.*	M. foliacis, Fab.
		2. Tragopa, *Latr.*	Membracis glabra, Germ.
		3. Darnis, *Fab.*	
		4. Bocydium, *Lat.*	Centrotus horridus, Fab.
		5. Centrotus, *Fab.*	Cicada cornuta, Lin.
		6. Ætalion, *Latr.*	
		7. Ledra, *Lat.*	Cicada aurita, Lin.
		8. Ciccus, *Lat.*	Cicada adspersa, Fab.
		9. Cercopis, *Fab.*	C. sanguinolenta, Fab.
		10. Eulopa, *Fall.*	Cercopis Ericæ, Arh.
		11. Eupelix, *Germ.*	Cicana cuspidata, Fab.
		12. Penthimia, *Germ.*	Cicada atra, Germ.
		13. Jassus, *Fab.*	
		14. Tettigonia, *Oliv.*	Cercopis grisea, Fab.
II. Aphidii.	Psylla, *Geoff.*	Livia, *Lat.*	Chermes buxi, Lin.
	Thrips, *Lin.*		
	Aphis, *Lin.*	1. Aphis, *Cuv.*	A. quercus, Lin.
		2. Aleyrodes, *Lat.*	Tinea proletella, Lin.
III. Gallinsecta.	Coccus, *Lin.*		C. adonidum, Lin.

ORDER VIII.—Neuroptera.

Family.	*Section.*	*Genus.*	*Subgenus.*	*Example of Species.*
I. Subulicornes, *Lat.*	....	Libellula, *Lin.*	1. Libellula, *Fab.*	L. depressa, Lin.
			2. Æshna, *Fab.*	Libellula grandis, Lin.
			3. Agrion, *Fab.*	Libellula virgo, Lin.
		Ephemera, *Lin.*		E. longicauda, Oliv.
II. Planipennes.	I. Panorpatæ.	Panorpa, *Lin.*	1. Nemoptera, *Lat.*	N. lustitanica, Leach.
			2. Bittacus, *Lat.*	
			3. Panorpa, *Lat.*	P. communis, Lin.
			4. Boreus, *Lat.*	Panorpa hiemalis, Lin.
	II. Myrmeleonides.	Myrmeleon, *Lin.*	1. Myrmeleon, *Fab.*	M. formicarium, Lin.
			2. Ascalaphus, *Fab.*	
	III. Hemerobini.	Hemerobius, *Lin.*	1. Hemerobius, *Lat.*	H. perla, Lin.
			2. Osmylus, *Lat.*	
			3. Nymphes, *Leach.*	N. myrmeleonides, Leach.
		Semblis, *Cuv.*	1. Corydalis, *Lat.*	
			2. Chauliodes, *Lat.*	
			3. Sialis, *Lat.*	Hemerobius lutarius, Lin.
	IV. Termitinæ.	Mantispa, *Illig.*		
		Raphidia, *Lin.*		R. ophiopsis, Lin.
		Termes, *Lin.*		T. lucifugum, Ross.
		Psocus, *Lat.*		Termes pulsatorium, Lin.
	V. Perlides.	Perla, *Geoff.*	1. Nemoura, *Lat.*	Phryganea bicaudata, Lin.
III. Plicipennes.	....	Phryganea, *Lin.*	1. Sericostoma, *Lat.*	
			2. Phryganea, *Cuv.*	P. grandis, Rœs.
			3. Mystacida.	
			4. Hydroptila, *Dal.*	
			5. Psychomyie, *Cuv.*	

ORDER IX.—HYMENOPTERA.

SECTION I.—TEREBRANTIA.

Family.	*Tribe.*	*Genus.*	*Subgenus.*	*Example of Species.*
I. SECURIFERA.	I. Tenthredinetæ, *Lat.*	Tenthredo, *Lin.*	1. Cimbex, *Oliv.*	Tenthredo lutea, Lin.
			2. Schyzocera, *Lat.*	
			3. Hylotoma, *Cuv.*	Tenthredo rosæ, Lin.
			4. Tenthredo, *Lat.*	T. scrophulariæ, Lin.
			5. Cladius, *Klüg.*	
			6. Athalia, *Leach.*	
			7. Pterygophorus, *Klüg.*	
			8. Lophyrus, *Lat.*	
			9. Megalodontes, *Lat.*	
			10. Pamphilius, *Lat.*	
			11. Xyela, *Dalm.*	
			12. Cephus, *Lat.*	
			13. Xiphydria, *Lat.*	
	II. Urocerata, *Lat.*	Sirex, *Lin.*	1. Oryssus, *Lat.*	
			2. Sirex, *Lin.*	S. gigas, Lin.
II. PUPIVORA.	I. Evaniales.	Fœnus, *Cuv.*	1. Evania, *Fab.*	
			2. Pelecinus, *Lat.*	
			3. Fœnus, *Fab.*	
			4. Aulacus, *Jur.*	
			5. Paxylloma, *Breb.*	
	II. Ichneumonides.	Ichneumon, *Lin.*	1. Stephanus, *Jur.*	Bracon serrator, Fab.
			2. Xorides, *Lat.*	Pimpla mediator, Fab.
			3. Pimpla, *Fab.*	Ichneumon persuasorius, Lin.
			4. Cryptus, *Fab.*	
			5. Ophion, *Fab.*	Ichneumon luteus, Lin.
			6. Banchus, *Fab.*	
			7. Helwigia, *Cuv.*	
			8. Joppa, *Fab.*	
			9. Ichneumon, *Cuv.*	
			10. Alomya, *Cuv.*	I. femoralis, Grav.
			11. Peltastes, *Illig.*	Ichneumon necatorius, Fab.
			12. Accœnitus, *Lat.*	
			13. Agathis, *Lat.*	
			14. Bracon, *Jur.*	
			15. Microgaster, *Lat.*	
			16. Helcon, *Nées d'Es.*	
			17. Sigalphus, *Lat.*	
			18. Chelonus, *Jur.*	
			19. Alysia, *Lat.*	

ORDER IX.—Hymenoptera *(continued)*.

Section I.—Terebrantia *(continued)*.

Family.	*Tribe.*	*Genus.*	*Subgenus.*	*Example of Species.*
II. Pupivora *(continued)*.	III. Gallicolæ.	Cynips, *Lin.*	1. Ibalia, *Lat.*	
			2. Figites, *Lat.*	
			3. Cynips, *Lin.* . .	Diplolepis gallæ tinctoriæ, Oliv.
	IV. Chalcidiæ.	Chalcis, *Fab.*	1. Chirocera, *Lat.*	Chalcis pectinicornis, Lat.
			2. Chalcis, *Cuv.*	Vespa minuta, Lin.
			3. Leucospis, *Fab.* . .	L. dorsigera, Fab.
			4. Eucharis, *Lat.*	
			5. Thoracanta, *Lat.*	
			6. Agaon, *Dalm.*	
			7. Eurytoma, *Illig.*	
			8. Misocampe, *Lat.*	
			9. Perilampus, *Lat.*	
			10. Pteromalus, *Lat.*	
			11. Cleonymus, *Lat.*	
			12. Eupelmus, *Dal.*	
			13. Encyrtus, *Lat.*	
			14. Spalangia, *Lat.*	
			15. Eulophus, *Geoff.*	
	V. Oxiuri.	Bethylus, *Lat.*	1. Dryinus, *Lat.*	
			2. Anteon, *Jur.*	
			3. Bethylus, *Lat.*	
			4. Proctotrupes, *Lat.*	
			5. Helorus, *Lat.*	
			6. Belyta, *Jur.*	
			7. Diapria, *Lat.*	
			8. Ceraphron, *Jur.*	
			9. Sparasion, *Lat.*	
			10. Teleas, *Lat.*	
			11. Scelion, *Lat.*	
			12. Platygaster, *Lat.*	
	VI. Chrysides.	Chrysis, *Lin.*	1. Parnopes, *Lat.* . .	P. carnea, Cuv.
			2. Chrysis, *Fab*	C. ignita, Lin.
			3. Cleptes, *Lat.*	

ORDER IX.—Hymenoptera (*continued*).

Section II.—Aculeata.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. Heterogyna.	Formica, *Lin.*	1. Formica, *Cuv.*	F. bispinosa, Lat.
		2. Polyergus, *Lat.*	F. amazon, Hub. fils.
		3. Ponera, *Lat.*	F. contracta, Lat.
		4. Odontomachus, *Lat.*	
		5. Myrmica, *Lat.*	F. rufa, Lin.
		6. Eciton, *Lat.*	
		7. Atta	Atta cephalotes, Fab.
		8. Cryptocerus, *Lat.*	
	Mutilla, *Lin.*	1. Dorylus, *Fab.*	
		2. Labidus, *Jur.*	
		3. Mutilla, *Cuv.*	Mutilla Europœa, Lin.
		4. Myrmosa, *Lat.*	
		5. Myrmecoda, *Lat.*	
		6. Scleroderma, *Klüg.*	
		7. Methoca, *Lat.*	

Family.	*Genus.*	*Section.*	*Subgenus.*	*Example of Species.*
II. Fossores.	Sphex.	Scolietes, *Cuv.*	1. Tiphia, *Fab.*	
			2. Tengyra, *Lat.*	
			3. Myrzine, *Lat.*	
			4. Meria, *Illig.*	
			5. Scolia, *Fab.*	
		Sapigytes, *Lat.*	1. Thynnus, *Fab.*	
			2. Polochrum, *Spin.*	
			3. Sapyga, *Lat.*	
		Sphegides, *Cuv.*	1. Pepsis, *Fab.*	
			2. Ceropales, *Lat.*	
			3. Pompilus, *Fab.*	Sphex viatica, Lin.
			4. Planiceps, *Lat.*	
			5. Aporus, *Spin.*	Sphex sabulosa, Lin.
			6. Ammophilus	
			7. Pronœus, *Lat.*	
			8. Sphex, *Cuv.*	
			9. Chlorion, *Lat.*	C. compressum, Fab.
			10. Dolichurus, *Lat.*	
			11. Ampulex, *Jur.*	
			12. Podium, *Lat.*	
			13. Pelopæus, *Lat.*	Sphex spirifex, Lin.
		Bembicides, *Fab.*	1. Bembex	Apis rostrata, Lin.
			2. Monedula, *Lat.*	
			3. Stizus, *Lat.*	Larra vespiformis, Fab.

ORDER IX.—HYMENOPTERA *(continued).*

SECTION II.—ACULEATA (*continued*).

Family.	*Genus.*	*Section.*	*Subgenus.*	*Example of Species.*
II. FOSSORES (*continued*).	Sphex (*continued*).	Larrates	1. Palarus, *Lat.*	
			2. Lyrops, *Illig.*	
			3. Larra, *Fab.*	
			4. Dinetus, *Jur.*	
			5. Miscophus, *Jur.*	
		Nissoniæ	1. Astata, *Latr.*	
			2. Nysson, *Lat.*	
			3. Oxybelus, *Lat.*	
			4. Nitela, *Lat.*	
			5. Pison, *Spin.*	
		Crabronites	1. Trypoxylon, *Lat.*	Sphex figulus, Lin.
			2. Gorytes, *Lat.*	
			3. Crabro, *Fab.*	
			4. Stigmus, *Jur.*	
			5. Pamphredon, *Lat.*	P. unicolor, Cuv. ?
			6. Mellinus, *Fab.*	
			7. Alyson, *Jur.*	
			8. Psen, *Lat.*	
			9. Philanthus, *Fab.*	
			10. Cerceris, *Lat.*	

Family.	*Tribe.*	*Genus.*	*Subgenus.*	*Example of Species.*
III. DIPLOPTERA.	I. Masarides, *Lat.*	Masaris, *Fab.*	1. Masaris, *Cuv.*	
			2. Celonites, *Lat.*	
	II. Vespariæ.	Vespa, *Lin.*	1. Ceramius, *Lat.* . .	C. lusitanicus, Klüg.
			2. Synagris, *Lat.* . .	S. cornuta, Lat.
			3. Eumenes, *Lat.* . .	E. coarctata, Fab.
			4. Pterochilus, *Klüg.*	Vespa phalœrata, Germ.
			5. Odynerus, *Lat.* . .	Vespa muraria, Lin.
			6. Vespa, *Lat.*	Polistes morio, Fab.

Family.	*Genus.*	*Section.*	*Subgenus.*	*Example of Species.*
IV. ANTHOPHILA.	Apis, *Lin.*	I. Andrenetæ	1. Hylæus, *Fab.*	
			2. Colletes, *Lat.* . .	Apis succincta, Lin.
			3. Andrena, *Lat.* . .	A. flessæ, Panz.
			4. Dasypoda, *Lat.*	
			5. Sphecodes, *Lat.*	
			6. Halictus, *Lat.*	
			7. Nomia, *Lat.*	

ORDER IX.—Hymenoptera (*continued*).

Section II.—Aculeata (*continued*).

Family.	*Genus.*	*Section.*	*Subgenus.*	*Example of Species.*
IV. Anthophila (*continued*).	Apis, *Lin.* (*continued*).	II. Apiariæ.	1. Systropha, *Illig.*	
			2. Rophites, *Spin.*	
			3. Panurgus, *Panz.*	
			4. Xylocopa, *Lat.*	Apis violacea, Lin.
			5. Ceratina, *Lat.*	
			6. Chelostoma, *Lat.*	
			7. Heriades, *Spin.*	
			8. Megachile, *Lat.*	Xylocopa muraria, Fab.
			9. Lithurgus, *Lat.*	Centris cornuta, Fab.
			10. Osmia, *Panz.*	
			11. Anthidium, *Fab.*	
			12. Stelis, *Panz.*	
			13. Cœlioxys, *Lat.*	
			14. Ammobates, *Lat.*	
			15. Phileremus, *Lat.*	
			16. Epeolus, *Lat.*	
			17. Nomada, *Fab.*	
			18. Pasites, *Jur.*	
			19. Melecta, *Lat.*	
			20. Crocisa, *Jur.*	
			21. Oxœa, *Klüg.*	
			22. Eucera, *Cuv.*	
			23. Macrocera, *Spin.*	
			24. Melipodes, *Lat.*	Apis longicornis, Lin.
			25. Melliturga, *Lat.*	
			26. Anthophora, *Lat.*	
			27. Saropoda, *Lat.*	
			28. Ancyloscelis, *Lat.*	
			29. Centris, *Fab.*	
			30. Epicharis, *Klüg.*	
			31. Acanthopus, *Klüg.*	
			32. Euglossa, *Lat.*	
			33. Bombus, *Lat.*	Apis muscorum, Lin.
			34. Apis, *Lat.*	Apis mellifica, Lin.
			35. Melipona, *Illig.*	
			36. Trigona, *Lat.*	

ORDER X.—LEPIDOPTERA.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. DIURNA.	Papilio, *Lin.*	1. P. equites, *Lin.*	P. Machaon, Lin.
		2. Zelima, *Fab.*	
		3. Parnassius, *Lat.*	Papilio Apollo, Lin.
		4. Thais, *Fab.*	Papilio Danai candidi, Lin.
		5. Pieris, *Sch.*	Papilio brassicæ, Lin.
		6. Colias, *Fab.*	Papilio hyale, Lin.
		7. Danais, *Cuv.*	Danaus festivus, Lin.
		8. Idea, *Fab.*	
		9. Heliconius, *Latr.*	Papilio Heliconii, Lin.
		10. Acrea, *Fab.*	Papilio nymphalis, Lin.
		11. Cethosia, *Fab.*	
		12. Argynnis, *Fab.*	
		13. Vanessa, *Fab.*	Papilio Antiopa, Lin.
		14. Libythia, *Fab.*	
		15. Biblis, *Fab.*	
		16. Nymphalis, *Latr.*	Papilio Jason, Lin.
		17. Morpho, *Fab.*	
		18. Pavonia, *Cuv.*	Papilio Phidippus.
		19. Brassolis, *Fab.*	
		20. Eumenia, *God.*	
		21. Eurybia, *Illig.*	
		22. Satyrus, *Lat.*	
		23. Erycina, *Lat.*	
		24. Myrina, *Fab.*	
		25. Polyommatus, *Cuv.*	Papilio alexis, Hübn.
		26. Barbicornis, *God.*	
		27. Zephyrius, *Dalm.*	
		28. Hesperia, *Fab.*	Hesperia malox, Fab.
		29. Urania, *Fab.*	Papilio riphæus, Fab.
II. CREPUSCULARIA.	Sphinx, *Lin.*	1. Agarista, *Leach.*	
		2. Coronis, *Lat.*	
		3. Castinia, *Fab.*	
		4. Sphinx, *Cuv.*	S. euphorbiæ, Lin.
		5. Macroglossum, *Sco.*	
		6. Smerinthus, *Lat.*	S. demipaon, Cuv.
		7. Sesia, *Cuv.*	
		8. Thyris, *Hoffm.*	Sphinx fenestrina, Fab.
		9. Ægocera, *Lat.*	Bombyx venulia, Fab.
		10. Zygeena, *Cuv.*	Sphinx filipendule, Lin.
		11. Syntomis, *Illig.*	
		12. Atychia, *Hoffm.*	
		13. Procris, *Fab.*	Sphinx statices, Lin.

ORDER X.—Lepidoptera (*continued*).

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
III. Nocturna.	Phalæna, *Lin.*		
	I. Hepialites	1. Hepialus, *Fab.*	H. humuli, Fab.
		2. Cossus, *Fab.*	C. ligniperda, Fab.
		3. Stygia, *Drap.*	S. australis, Lat.
		4. Zeuzera, *Lat.*	Cossus æsculi, Fab.
	II. Bombyciles	1. Saturnia, *Cuv.*	Bombyx tan, Fab.
		2. Lasiocampa, *Cuv.*	Bombyx quercifolia, Fab.
		3. Bombyx, *Cuv.*	B. mori, Lin.
	III. Pseudo-bombyces	1. Sericaria, *Lat.*	Bombyx dispar, Fab.
		2. Notodonta, *Ochs.*	
		3. Orygia, *Ochs.*	B. antiqua, Fab.
		4. Limacodes, *Lat.*	
		5. Psyche, *Schr.*	
		6. Chelonia, *God.*	Bombyx chrysorrhœa, Fab.
		7. Callimorpha, *Lat.*	Bombyx Jacobeæ, F. Roes.
		8. Lithosia, *Fab.*	
	IV. Aposura	1. Dicranoura, *God.*	
		2. Platypterix, *Lasp.* ?	
	V. Noctuælites	1. Erebus, *Lat.*	
		2. Noctua, *Cuv.*	N. sponsa, Fab.
	VI. Phalenæ tortrices	1. Pyralis, *Fab.*	P. pomana, Fab.
	VII. Phalænites, *Lat*	1. Phalæna, *Cuv.*	P. sambucaria, Lin.
	VIII. Deltoides	1. Herminia, *Lat.*	
	IX. Tineites	1. Botys, *Lat.*	Papilio urticata, Lin.
		2. Hydrocampe, *Lat.*	Papilio potamogata, Cuv.
		3. Aglossa, *Latr.*	Papilio pinguinalis, Lin.
		4. Galleria, *Fab.*	G. cereana, Fab.
		5. Crambus, *Fab.*	
		6. Alucita, *Lat.*	
		7. Euplocamus, *Lat.*	
		8. Phycis, *Fab.*	P. Boleti, Fab.
		9. Tinea, *Cuv.*	Pyralis tapezana, Fab.
		10. Ilithyia, *Lat.*	Crambus carneus, Fab.
		11. Yponomeuta, *Lat.*	Tinea evonymella, Fab.
		12. Oecophora, *Lat*	Tinea majorella, Hübn.
		13. Adela, *Lat.*	Alucita Dejeerella, F.
	X. Pterophorites	1. Pterophorus, *Cuv.*	P. pentadactylus, Fab.
		2. Orneodes, *Latr.*	Pterophorus hexadactylus, Fab.

ORDER XI.—RHIPIPTERA.

Genus.

I. Xenos, *Ros.*
II. Stylops, *Kir.*

ORDER XII.—DIPTERA.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. NEMOCERA.	Culex, *Lin.*	1. Culex, *Cuv.*	Culex pipiens, Lin.
		2. Anopheles, *Cuv.*	
		3. Oedes, *Hoffm.*	
	Tipula, *Lin.*	1. Corethra, *Meig.*	Tipula culiciforma, de Géer.
		2. Chironomus, *Meig.*	Tipula annularia, Meig.
		3. Tanypus, *Meig.*	
		4. Ceratopogon, *Meig.*	
		5. Psychoda, *Lat.*	
		6. Cicidomyia, *Meig.*	
		7. Lestremia, *Macquart*	Cecidomyia destructor, Mac.
		8. Ctenophora, *Meig.*	Tipula pectinicornis, Fab.
		9. Pedicia, *Lat.*	
		10. Tipula, *Lat.*	T. oleracea, Lin.
		11. Nephrotoma, *Meig.*	
		12. Ptychoptera, *Meig.*	
		13. Riphidia, *Meig.*	
		14. Erioptera, *Meig.*	
		15. Lasioptera, *Meig.*	
		16. Limnobia, *Meig.*	
		17. Polymera, *Wied.*	
		18. Trichocera, *Meig.*	
		19. Macrœpeza, *Meig.*	
		20. Dixa, *Meig.*	
		21. Mækistocera, *Wied.*	
		22. Hexatoma, *Lat.*	
		23. Chionea, *Dalm.*	
		24. Rhyphus, *Lat.*	
		25. Asindulum, *Cuv.*	
		26. Gnorista, *Meig.*	
		27. Bolitophila, *Hoff.*	

ORDER XII.—Diptera (*continued*).

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. Nemocera (*continued*).	Tipula, *Lin.* (*cont.*)	28. Macrocera, *Meig.*	
		29. Mycetophila, *Meig.*	
		30. Leia, *Meig.*	
		31. Platyura, *Meig.*	
		32. Synapha, *Meig.*	
		33. Mycetobia, *Meig.*	
		34. Molobrus, *Latr.*	
		35. Campylomyza, *Wied.*	
		36. Ceroplateus, *Bosc.*	
		37. Cordyla, *Meig.*	
		38. Simulium, *Lat.*	
		39. Scatopse, *Geoff.*	Tipula latrinarum, De G.
		40. Penthetria, *Meig.*	
		41. Dilophus, *Meig.*	
		42. Bibeo, *Geoff.*	Tipula hortulana, Lin.
		43. Aspistes, *Hofm.*	
II. Tanystoma.	Asilus, *Lin.*	1. Laphria, *Meig.*	
		2. Ancilorhynchus, *Lat.*	
		3. Dasypogons, *Meig.*	
		4. Ceraturgus, *Wied.*	
		5. Dioctria, *Meig.*	
		6. Asilus, *Cuv.*	A. craboniformis, Lin.
		7. Ommatius, *Illig.*	
		8. Gonipus, *Lat.*	
		9. Oedalia, *Meig.*	
		10. Hybos, *Meig.*	
		11. Ocydromia, *Hoff.*	
	Empis, *Lin.*	1. Empis, *Cuv.*	E. pinnipes, Fab.
		2. Ramphomyia, *Meig.*	
		3. Hilara, *Meig.*	
		4. Brachystoma, *Meig.*	
		5. Gloma, *Meig.*	
		6. Hemerodromia, *Hoffm.*	
		7. Sicus, *Lat.*	
		8. Drapetis, *Meig.*	
	Cyrtus, *Lat.*	1. Panops, *Lam.*	
		2. Cyrtus, *Lat.*	
		3. Astomella, *Duf.*	
		4. Henops, *Illig.*	
		5. Acrocera, *Meig.*	

ORDER XII.—Diptera (*continued*).

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
II. Tanystoma (*continued*).	Bombylius, *Lin.*	1. Toxophora, *Meig.*	T. maculatus, Meig.
		2. Xestomyza, *Wied.*	
		3. Apatomyza, *Wied.*	
		4. Lasius, *Wied.*	
		5. Usia, *Lat.*	
		6. Phthiria, *Meig.*	
		7. Bombylius, *Meig.*	B. major, Lin.
		8. Geron, *Meig.*	
		9. Ploas, *Meig.*	
		10. Cyllenia, *Latr.*	
	Anthrax, *Scop.*	1. Stygides, *Lat.*	
		2. Anthrax, *Meig.*	Musca morio, Panz.
		3. Hirmoneura, *Wied.*	
		4. Mulio, *Lat.*	
		5. Nemestrina, *Lat.*	
		6. Fallenia, *Meig.*	
		7. Colax, *Wied.*	
	Thereva, *Lat.*		Bibio plebeia, Fab.
	Leptis, *Cuv.*	1. Atherix, *Meig.*	
		2. Leptis, *Fab.*	Musca scolopacea, Lin.
		3. Chrysopilus, *Mac.*	Musca vermileo, Lin.
		4. Clinocera, *Meig.*	
	Dolichopus, *Lat.*	1. Ortochile, *Lat.*	
		2. Dolichopus, *Cuv.*	D. ungulatus, Fab.
		3. Sybistroma, *Meig.*	
		4. Raphium, *Meig.*	
		5. Porphyrops, *Meig.*	
		6. Medeterus, *Fisc.*	
		7. Hydrophorus, *Mac.*	
		8. Chrysotus, *Mac.*	
		9. Psilopus, *Mac.*	
		10. Diaphorus, *Mac.*	
		11. Callomyia, *Meig.*	
		12. Platypeza, *Meig.*	
		13. Scenopinus, *Lat.*	Musca fenestralis, Lin.
III. Tabanides.	Tabanus, *Lin.*	1. Pangonia, *Lat.*	
		2. Tabanus, *Cuv.*	T. bovinus, Lin.
		3. Silvia, *Meig.*	Tabanus vituli, Fab.
		4. Chrysops, *Cuv.*	C. cœcutiens, Fab.
		5. Hæmatopota, *Meig.*	
		6. Hexatoma, *Meig.*	

ORDER XII.—Diptera *(continued).*

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
IV. Notacantha.	Mydas, *Cuv.*	1. Cephalocera, *Lat.*	
		2. Mydas, *Fab.*	
	Chiromyza. *Wied.*		
	Pachystomus, *Lat.*		
	Xylophagus, *Cuv.*	1. Hermetia, *Lat.*	
		2. Xylophagus, *Meig.*	X. ater, Lat.
		3. Acanthomera, *Wied.*	
		4. Raphiorhynchus	
		5. Cœnomyia, *Lat.*	Sicus ferrugineus, Fab.
		6. Beris, *Lat.*	
		7. Cyphomyia, *Wied.*	
		8. Ptilodactylus, *Wied.*	Stratiomys quadridentata, Fab.
	Stratiomys, *Geoff.*	1. Stratiomys, *Fab.*	S. chamælion, Fab.
		2. Odontomyia, *Meig.*	
		3. Ephippium, *Lat.*	Stratiomys ephippium, Fab.
		4. Oxycera, *Meig.*	Stratiomys hypoleon, Fab.
		5. Nemotelus, *Geoff.*	
		6. Chrysochlora, *Lat.*	Sargus amethystinus, Fab.
		7. Sargus, *Fab.*	Musca cupraria, Lin.
		8. Vappo, *Lat.*	

Family.	*Tribe.*	*Genus.*	*Subgenus.*	*Example of Species.*
V. Athericera.	I. Syrphides.	Syrphus, *Cuv.*	1. Volucella, *Geoff.*	Musca mystacea, Lin.
			2. Sericomyia, *Meig.*	
			3. Eristalis, *Meig.*	E. intricarius, Meig.
			4. Mallota, *Meig.*	
			5. Helophilus, *Meig.*	Musca tenax, Lin.
			6. Syrphus, *Lat.*	Scæva ribesii, Fab.
			7. Baccha, *Meig.*	
			8. Chrysogaster, *Meig.*	
			9. Paragus, *Lat.*	
			10. Sphecomyia, *Lat.*	
			11. Psarus, *Lat.*	
			12. Chrysotoxum, *Meig.*	
			13. Ceria, *Fab.*	
			14. Callicera, *Meig.*	
			15. Ceratophyia, *Wied.*	
			16. Aphritis, *Lat.*	
			17. Merodon, *Meig.*	Eristalis Narcissi, Fab.

ORDER XII.—Diptera (*continued*).

Family.	*Tribe.*	*Genus.*	*Subgenus.*	*Example of Species.*
V. Athericera (*continued*).	I. Syrphides.	Syrphus (*cont.*).	18. Ascia, *Meig.*	
			19. Sphegina, *Meig.*	
			20. Eumerus, *Meig.*	Musca pipiens, Lin.
			21. Milesia, *Lat.*	
			22. Pipiza, *Meig.*	
			23. Brachyopa, *Hoff.*	
			24. Rhingia, *Scop.*	
			25. Pelocera, ? *Hoff.*	
	II. Oestrides.	Oestrus, *Lin.*	1. Cuterebra, *Clarck.*	
			2. Cephenemyia, *Cuv.*	Oestrus buccatus, Fab.
			3. Oedemagena, *Cuv.*	
			4. Oestrus, *Cuv.*	Oe. equi, Fab.
	III. Conopsariæ.	Conops, *Lin.*	1. Systropus, *Wied.*	
			2. Conops, *Fab*	C. macrocephala, Fab.
			3. Zodion, *Lat.*	
			4. Myopa, *Fab.*	M. ferruginea, Fab.
			5. Stomoxys, *Geoff.*	Conops calcitrans, Lin.
			6. Bucentes, *Lat.*	
			7. Carnus, *Nitz.*	
	IV. Muscides.	Musca, *Cuv.*	1. Echinomyia, *Dum.*	Musca grossa, Lin.
			2. Gonïa, *Meig.*	
			3. Miltogramma, *Meig.*	
			4. Trixa, *Meig.*	
			5. Gymnosomia, *Meig.*	
			6. Cistogaster, *Lat.*	
			7. Phasia, *Meig.*	
			8. Trichiopoda, *Lat.*	Thereva plumipes, Fab.
			9. Lophosia, *Meig.*	
			10. Ocyptera, *Meig.*	O. bicolor, Duf.
			11. Melanophora, *Meig.*	
			12. Phania, *Meig.*	
			13. Xysta, *Meig.*	
			14. Tachina, *Fab.*	
			15. Dexia, *Meig.*	
			16. Musca, *Lin.*	M. vomitoria, Lin.
			17. Sarcophaga, *Meig.*	Musca carnaria, Lin.
			18. Achias, *Fab.*	
			19. Idia, *Meig.*	Musca felina, Fab.

ORDER XII.—Diptera (*continued*).

Family.	*Tribe.*	*Genus.*	*Subgenus.*	*Example of Species.*
V. Athericera (*continued*).	IV. Muscides (*continued*).	Musca, *Cuv.* (*cont.*). . .	20. Lipse, *Lat.*	
			21. Agyritis, *Lat.*	
			22. Anthomyia, *Meig.*	Musca pluvialis, Lin.
			23. Drymeia, *Meig.*	
			24. Cænosia, *Meig.*	Musca fungorum, De Géer.
			25. Eriphia, *Meig.*	
			26. Ropalomera, *Wied.*	
			27. Ochtera, *Lat.*	
			28. Ephydra, *Fall.*	
			29. Notiphila, *Fall.*	Musca cellaria, Panz.
			30. Thyreophora, *Lat.*	Musca cynophila, Panz.
			31. Sphærocera, *Lat.*	
			32. Dialyta, *Meig.*	
			33. Cordylura, *Fall.*	
			34. Scatophaga, *Lat.*	Musca stercoria, Lin.
			35. Loxocera, *Lat.*	
			36. Chyliza, *Fall.*	
			37. Lissa, *Meig.*	
			38. Psilomyia, *Latr.*	
			39. Lonchoptera, *Meig.*	
			40. Heleomyza, *Fall.*	Musca serrata, Lin.
			41. Dryomyza, *Fall.*	
			42. Sapromyza, *Fall.*	
			43. Oscinis, *Lat.*	
			44. Otites, *Lat.*	Oscinis umbraculata, Fab.
			45. Euthycera, *Lat.*	Scatophaga chærophylli, Fab.
			46. Sepedon, *Lat.*	
			47. Tetanocera, *Dum.*	Sepedon rufa, Fab.
			48. Micropeza, *Meig.*	Calobata filiformis, Fab.
			49. Calobata, *Meig.*	
			50. Diopsis, *Lin.*	D. apicalis, Dalm.
			51. Cephalia, *Meig.*	
			52. Sepsis, *Fall.*	
			53. Ortalis, *Fall.*	Musca vibrans, Lin.
			54. Tetanops, *Meig.*	
			55. Thephritis, *Lat.*	Musca cardui, Lin.
			56. Platystoma, *Meig.*	
			57. Celyphus, *Dalm.*	C. obtectus, Dalm.
			58. Lauxania, *Lat.*	

ORDER XII.—Diptera (*continued*).

Family.	*Tribe.*	*Genus.*	*Subgenus.*	*Example of Species.*
V. Athericera (*cont.*).	IV. Muscides (*continued*).	Musca, *Cuv.* (*cont.*) ..	59. Mosillus, *Lat.*	
			60. Tlmia, *Lat.*	
			61. Homalura, *Meig.*	
			62. Actora, *Meig.*	
			63. Gymnomyza, *Fall.*	
			64. Lonchæa, *Fall.*	
			65. Phora, *Lat.*	
VI. Pupipara.	......	Hippobosca, *Lin.*	1. Hippobosca, *Cuv.*	H. equina, Lin.
			2. Ornithomyia, *Lat.*	Hippobosca avicularia, Lin.
			3. Strebla, *Dalm.*	
			4. Melophagus, *Lat.*	Hippobosca ovina, Lin.
			5. Lipotepna, *Nitz.*	
	......	Nycteribia, *Lat.*		

DIVISION IV.—RADIATA, OR ZOOPHYTES.

This division includes the most simple forms of animated nature, and although these forms vary considerably in the several classes, all show traces, more or less distinct, of radiation from a common centre.

It includes five classes.

Division.	*Class.*
RADIATA..	I. Echinodermata
	II. Entozoa, or, Intestinal Worms
	III. Acalephæ
	IV. Polypi
	V. Infusoria

CLASS I.—ECHINODERMATA.

This name is strictly applicable to the genus Echinus, sea-urchins, or hedgehogs, but is applied more generally to the most complicated of the radiated animals. All the genera have a well organized skin, with distinct viscera, and a sort of imperfect vascular system.

The class includes two orders.

Echinodermata..	1. Pedicellata
	2. Apedicellata

ORDER I.—Pedicellata.

The envelope in this order is pierced with apertures, through which issue numerous membranaceous tentacula, which acting as organs of motion, are called the feet.

ORDER I.—Pedicellata.

Genus.	*Subgenus.*	*Example of Species.*
Asterias	1. Asterias, *prop. Lam.*	As. discoïdea, Lam.
	2. Ophiura	Ast. nigra, Müll.
	3. Gorgonocephala, *Leach.*	As. caput Medusæ.
	4. Alecto, *Leach.*	As. multiradiata, Leach.
Encrinus	1. Encrinus, prop. & existing.	Pentacrinus Europæus, Thomson.
	2. Apiocrinites	*All fossil.*
	3. Encrinites	
	4. Pentacrinites	
	5. Platycrinites	
	6. Poteriocrinites	
	7. Cyathocrinites	
	8. Actinocrinites	
	9. Rhodocrinites	
	10. Eugeniacrinites	
Echinus	1. Echinus, prop.	E. mamillatus, L.
	2. Echinone, *Phelsum.*	E. cyclostomus, Müll.
	3. Nucleolites, *Lin.*	Spatangus depressus, fossil, Leslie.
	4. Galerites, *Lam.*	Ech. vulgaris, fossil, L.
	5. Scutella, *Lam.*	E. auritus, Scl.
	6. Rotula, *Kl.*	E. decadactylus.
	7. Cassidulus, *Lam.*	Cass. Caribæorun, Lam.
	8. Ananchites, *Lam.*	E. ovatus, L. fossil.
	9. Clypeaster, *Lam.*	E. rosaceus, Kl.
	10. Fibularia, *Lam.*	E. nucleus, Kl.
	11. Spatangus, *Kl.*	
	12. Brissoïdes, *Kl.*	E. teres, Seb.
	13. Brissus, *Kl.*	E. purpureus, Müll.
Holothuria		Hol. plantapus, L.

ORDER II.—Apedicellata.

Genus.	*Subgenus.*	*Example of Species.*
Molpadia		Mol. holothuroïdes, Cuv.
Mynias		M. cyanea, Cuv.
Priapulus		Hol. priapulus, L.
Lithodermes		Lith. cuneus, Cuv.
Siponculus		Sip. edulis, Cuv.
Bonellia		Bon. viridis, Rol.
Thalassema	1. Thalassema, prop.	T. Neptuni, Gertner.
	2. Echiurus.	Lumbricus echiurus, Gmel.
	3. Sternapsis, *Otto*	Thalassima scutatum, Ranzan.

CLASS II.—INTESTINA—ENTOZOA, *Rudolphi.*

This class, so far as has been observed, is destitute of any true circulation, though there are obscure vestiges of nerves. Most of the genera live only in the interior of other animals.

They are divided into two orders.

Class.	*Order.*
INTESTINA..	1. Intestina cavitaria 2. Intestina parenchymata

ORDER I.—INTESTINA CAVITARIA—NEMATOIDEA, *Rudolphi.*

Genus.	*Subgenus.*	*Example of Species.*
Filaria, *L.*		Fil. Medinensis, Gm.
Trichocephalus	1. Trichocephalus, *proper.*	T. dispar, Rud.
	2. Trichostomus.	
	3. Oxyuris.	Ox. curvula, Rud.
Cucullanus		C. lacustris, Gm.
Ophiostomus		O. cystidicola.
Ascaris		As. lumbricoïdes, L.
Strongylus		Stron. equinus, Gm.
Spiroptera		Sp. strumosa, Nits.
Physaloptera		See Rud. Syn. 29.
Scelorostoma, *Blain.*	1. Scelorostoma, *Blain.*	
	2. Liorhynchus, *Rud.*	
Linguatula		
Prionoderma		Cucullanus ascarhoides
Lernæa	1. Lernæa, prop.	L. branchialis, L.
	2. Pennella, *Oken*	Pen. filosa, Gm.
	3. Sphyrionis, *Cuv.*	Chondracanthe lisse, Quoy&G.
	4. Anchorella, *Cuv.*	Lernæa adunea, Stræm.
	5. Brachiella, *Cuv*	B. Thynni, Cuv.
	6. Clavella, *Oken.*	Lernæa uncinata, Müll.
	7. Chondracanthus, *Laroch.*	Lernæa radiata, Müll.
Nemertes, *Cuv.*		Nem. Borlasii, Cuv.
Tubularia, *Renimeri.*		
Ophiocephalus, *Quoy & G.*		
Cerebratula, *Renimeri*		

ORDER II.—PARENCHYMATA.

This order is divided into four families.

Order.	*Family.*
PARENCHYMATA..	Acanthocephala Trematodes Tenioides Cestoides

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. ACANTHOCEPHALA.	Echinorhynchus	1. E. prop	E. gigas, Gm.
		2. Hæruca	H. muris, Gm.
II. TREMATODES.	Fasciola ..	1. Festucaria.	
		2. Strigea.	
		3. Caryophyllæus.	
		4. Fasciola, prop.	F. hepatica, L.
	Holostoma		
		1. Polystoma	P. intergerrimum, Rud.
	Cyclocotyles		C. bellones, Ott.
		1. Tristoma, *Cuv.*	T. coccineum, Cuv.
	Hectocotyles		H. octopodis, Cuv.
	Aspidogaster		A. conchycola, Bær.
	Planaria		P. lactea.
	Prostomes		
	Derostoma		
III. TENIOIDES.	Phœnicura		Vertumnus thedicola, Otto
	Tænia		T. lata, Rud.
	Tricuspidaria		T. nodulosa, Gm.
	Bothryocephalus		
	Dibothryorhynchus		
	Floriceps		
	Rhyncobothrium		R. corollatus, Rud.
	Tetrarhynchus		T. lingualis, Cuv.
		1. Tentacularia, *Bosc.*	
	Cysticercus		T. ferarum.
	Cœnurus		T. cerebralis.
	Scolex		S. gigas, Cuv.
IV. CESTOIDES.	Ligula		L. abdominalis, Gm.

CLASS III.—ACALEPHA.

Commonly called sea-nettles. These display some appearance of internal vessels, which, however, are mere productions of the intestines in the substance of the body.

They include two orders.

Class.	*Order.*
Acalepha	Acalephæ simplices. Acalephæ hydrostaticæ.

ORDER I.—Acalephæ Simplices.

Genus.	*Subgenus.*	*Example of Species.*
Medusa	1. Medusa, prop.	
	2. Æquorea	M. æquorea, Gm.
	3. Phorcynia	M. mollicina, Forsk.
	4. Foveolia	
	5. Pelagia	O. panopyra, Peron.
	6. Cyanæa	Med. aurita.
	7. Rhyzostoma	Med. pulmo, Gm.
	8. Cephæa	Med. cephæa, Forsk.
	9. Cassiopea	Med. frondosa, Pal.
	10. Astoma	Med. proboscidalis, Forsk.
	11. Berenice	B. carisochroma, Per.
	12. Eudora	Eud. moneta, Cuv.
	13. Carybdea	Med. marsupialis, Gm.
	14. Beroe	Med. pileus, Gm.
	15. Idya	Med. infundibulum, Gm.
	16. Doliolum	D. Mediterraneum, Otto.
	17. Callianira	C. didiploptera, Per.
	18. Janira	Beroe hexagone, Brug.
	19. Alcinæ	A. vormiculata, Rans.
	20. Ocyroe	O. maculata, Rans.
	21. Cestum	Cest. Veneris, Leseur.
Porpites		Med. umbella, Müll.
Velella		Med. velella, Gm.

ORDER II.—HYDROSTATICA.

This order is distinguished by air vesicles or bladders, by which the animals are usually suspended in the water.

Genus.	*Subgenus.*	*Example of Species.*
Physalia, *Lam.*		Holothuria physalis, L.
Physsophora, *Forsk.*	1. Physsophora, prop.	P. hydrostatica, Gm.
	2. Hippopus, *Quoy & G.*	
	3. Cupulites.	
	4. Racemides, *Cuv.*	
	5. Rhyzophyza, *Per.*	P. filliformis, Forsk.
	6. Stephanomia	S. amphitritis, Per.
Diphyes, *Cuv.*	1. Diphyes, prop.	See An. de Sc. X.
	2. Calpe.	
	3. Abyle.	
	4. Cuboides.	
	5. Navicula.	

CLASS IV.—POLYPI.

In this class there are tentacula, which surround the mouth. Most of the genera propagate by off-shoots, as well as by eggs.

It includes three orders, viz.—

Class.	*Order.*
Polypi..	Polypi carnosi.
	Polypi gelatinosi.
	Polypi polypiferi.

ORDER I.—Polypi Carnosi.

Called also fixed sea-nettles. They have a fleshy envelope, and are generally fixed to some submarine object, but occasionally free.

Genus.	*Subgenus.*	*Example of Species.*
Actinia	1. Actinia, prop.	Ac. senilis, L.
	2. Thalassianthus	Thal. aster, Ruppel.
	3. Discosoma	D. nummiforme, Id.
	4. Zoanthus	Hydra sociata, Gm.
Lucernaria		L. quadricornis, Müll.

ORDER II.—Polypi Gelatinosi.

Are without any general envelope, and are gelatinous. Their body represents a mere bag.

Genus.	*Example of Species.*
Hydra, *Lin.*	H. viridis, Trembley.
Corine, *Gærtner.*	Tabularia coryna, Gm.
Cristatella	C. mucedo, Cuv.
Vorticella	
Pedicellaria	See Müller, Zool. Dan. xvi.

ORDER III.—Polypi Polypiferi.

In this order the animals are composite, inhabiting, in numbers, a single habitaculum or polyparia, with a community of nutriment and volition.

The order is divided into three families.

Family.	*Genus.*	*Subgenus.*	*Example of Species.*
I. P. Tubiferi.	Tubipora		T. musica, L.
	Tubularia	1. Tub. marina	Tub. indivisa, Ellis.
		2. Tibiana	Tib. fasciculata, Lam.
		3. Cornularia	Tub. cornucopia
		4. Anguinaria	Sertularia anguina, Ellis.
		5. Campanularia	Sert. verticillata, Ellis.
	Sertularia	1. Aglophenia	Sert. myrophillum, Ellis.
		2. Amatia	Sert. lendigera, Ellis.
		3. Antennularia	Sert. antennina, Gm.
		4. Sertularia, prop.	Sert. æbictina, Gm.
II. P. Cellulosi.	Cellularia	1. Crisia	Sert. eburnia, Gm.
		2. Acamarchis	Sert. neritina, Gm.
		3. Loricula	Sert. loricata, Ellis.
		4. Eucratia	Sert. chelata, Gm.
		5. Electra	Flustra verticillata, Gm.
		6. Salicornaria	Cellularia salicornia, Ellis.
	Flustra		T. foliacea, Gm.
	Cellepora		Cel. hyalina, Gm.
	Tubulipora		Millepora tubulosa, Gm.
	Corallina	1. Corallina, prop.	Cor. officinalis, Ellis.
		2. Amphiroe	Cor. rigens, Ellis.
		3. Jania	Cor. rubens, Id.
		4. Cymopholia	Cor. barbata, Gm.
		5. Penicillus	Cor. penicillus, Ellis.
		6. Halymede	Cor. tuna, Id.
		7. Flabellaria	Cor. conglutina, Id.
		8. Galaxaura	Cor. obtusata, Id.
		9. Liagora	Cor. marginata, Id.
		10. Anadiomene	An. flabellata, Lamour.
		11. Acetabulum	Tubularia, acetabulum, Gm.
		12. Polyphysa	Pol. aspergillum, Lamour

Family.	*Tribe.*	*Genus.*	*Subgenus.*	*Example of Species.*
III. P. Corticati.	I. Coratophyta.	Antipathes		Ant. spiralis, Ellis.
		Gorgonia	1. Plexaurus	Gorg. crassa, Gm.
			2. Eunicea	Gorg. antipathes, Seb.
			3. Muricea	Mur. spirifera, Lam.
			4. Primnoa	Gorg. reseda, Gm.

ORDER III.—Polypi Polypiferi (*continued*).

Family.	*Tribe.*	*Genus.*	*Subgenus.*	*Example of Species.*
III. Corticati (*continued*).	II. Lithophyta.	Isis	1. Coralium	Isis nobilis, L.
			2. Melite, *Lam.*	Isis ocracea, Espern.
			3. Isis, prop., *Lam.*	Isis hippuris, L.
			4. Mopsea	Isis dichotoma, Seb.
		Madrepora	1. Fungia, *Lam*	Mad. fungites, L.
			2. Turbinolia, *Id.*	Mad. turbinata, L.
			3. Cyclolithes, *Id.*	Mad. porpita, L.
			4. Caryophyllia, *Id.*	Mad. cyathus, Ellis.
			5. Oculina, *Id.*	Mad. Virginea, L.
			6. Pocillopera, *Id.*	Mad. domicornis, Esper.
			7. Serialopora, *Id.*	Mad. seriata, Pall.
			8. Astrea	Mad. radiata, Ell.
			9. Explanaria	Mad. emerascens, Ell.
			10. Porites	Mad. porites, Ellis.
			11. Meandrina	
			12. Puvaria	Mad. agaricites.
			13. Hydrophora	Mad. exesa, Ellis.
			14. Agaricina	Mad. cucullata, Ellis.
			15. Sarcinula, *Lam.*	Mad. organum, L.
			16. Stylina.	
	III. Nantia.	Millepora	1. Distichopora	Mill. violacea, Pall.
			2. Millepora, prop. *Lam.*	Mill. alcicorius, Pall.
			3. Nullipora	Mill. informis, L.
			4. Eschara, *Lam.*	Mill. foliacea, Ellis.
			5. Retepora, *Id.*	Mill. cellulosa, Ell.
			6. Adeona Lamouroux.	Ad. grisea, Lamour.
		Pennatula	1. Pennatula, prop., *Cuv.*	Pen. rubra, Gm.
			2. Virgularia, *Lam.*	Pen. mirabilis, Müll.
			3. Scirpearea, *Cuv*	Pen. mirabilis, Lin.
			4. Pavonaria, *Cuv*	Pen. antennina, Bohatsch
			5. Renilla, *Lam.*	Pen. reniformis, L.
			6. Veretillum, *Cuv.*	Pen. cynomorium, Pall.
			7. Ombelluraria, *Cuv.*	Pen. encrinus, Ellis.
		Ovulites Lunulites Orbulites Dactylopora		*Fossil genera.*
	IV. Alcyonia.	Alcyonium		Alcy. digitatum, Ell.
			Thethya, *Lam.*	
		Spongia		Sp. officinalis, L.

CLASS V.—INFUSORIA.

Microscopic animals, in general of extreme simplicity of organization. Some of the genera, however, appear to be more complicated, though the details of their organization escape the deepest powers of the microscope.

The class is divided into two orders.

Class.	*Order.*
INFUSORIA	1. Rotifera.
	2. Homogenea.

ORDER I.—ROTIFERA.

Body oval and gelatinous; a mouth, stomach, intestines, and arms have been observed. The mouth or head is surrounded by denticulated lobes, which vibrate with great rapidity, and present the appearance under the glass of a revolving wheel.

Genus.	*Subgenus.*	*Example of Species.*
Furcularia	1. Furcularia, prop.	F.
	2. Trichocerca, *Lam.*	Tri. paxillum, Müll.
	3. Vaginicola, *Lam.*	Tri. innata, Müll.
Tubicolaria, *Lam.*		Vorticella tetrapetala
Brachionus, *Müll.*		

ORDER II.—HOMOGENEA.

Body gelatinous, but without appearance of stomach, intestines, anus, and sometimes of mouth.

Genus.

Urceolaria, *Lam.*
Trichoda
Leucophra
Kerona
Himantopus
Cercaria
Vibrio
Enchelis
Cyclidium
Paramecium
Kolpoda
Gonium
Bursaria
Proteus
Monas
Volvox.

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